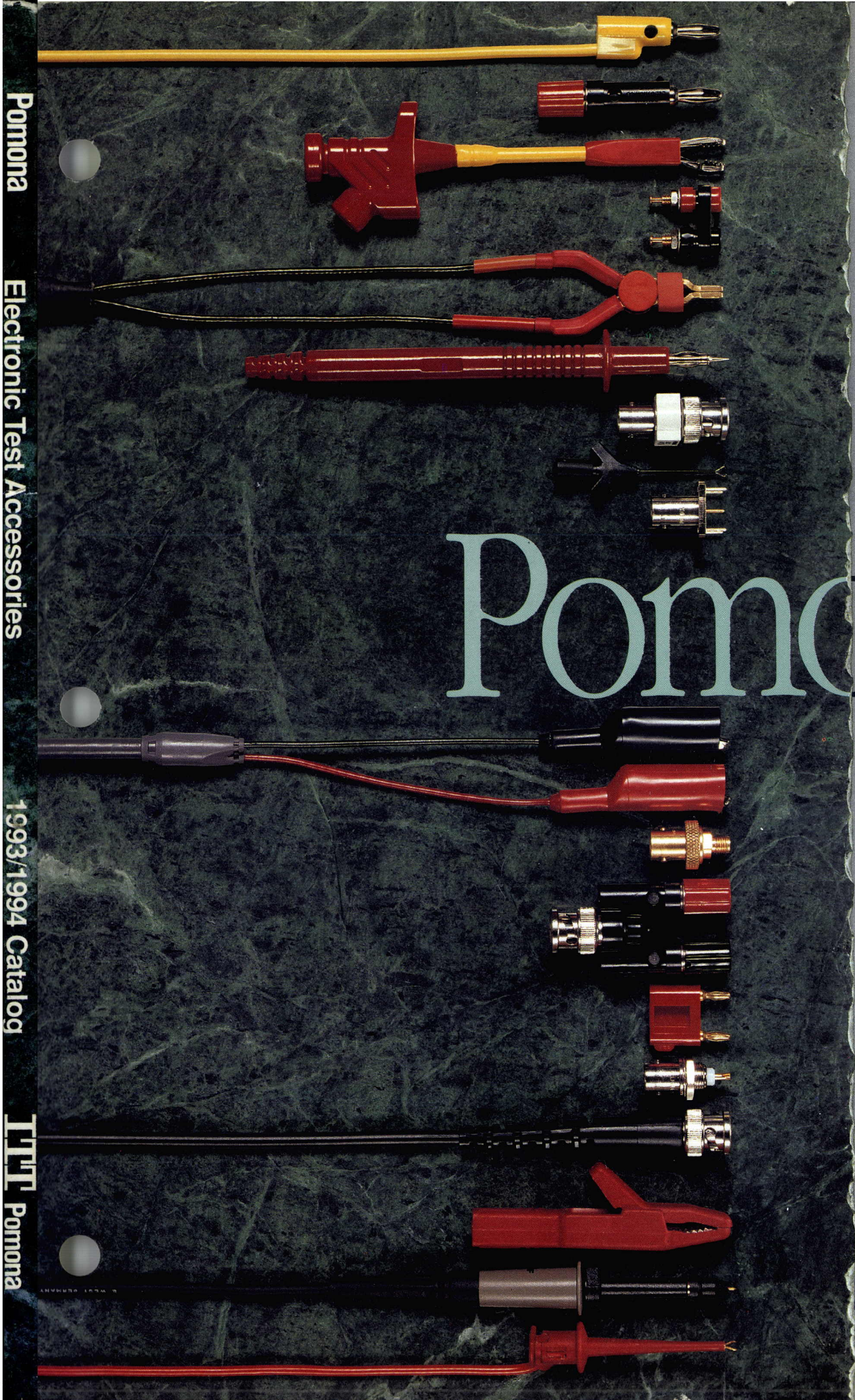


Pomona

Electronic Test Accessories

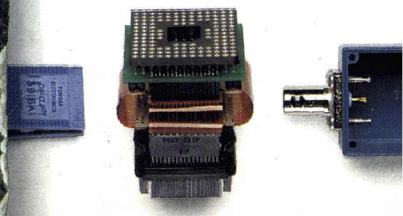
1993/1994 Catalog

ITT Pomona

Electronic Test Accessories

Pomona

ITT Pomona



The Pomona Catalog

Whether you design products or test them, whether you work in the lab or in the field, you want test accessories that assure fast, reliable results — every time — year after year.

That's why professionals like you count on Pomona.

You know high-quality Pomona probes, test leads and IC clips deliver the performance you demand, which makes testing and repairs faster. You know Pomona test accessories add value: interchangeable parts, slide-on tips and other conveniences that make your job easier. You know that, as technology rapidly grows, Pomona will keep pace with sophisticated and innovative test accessories so you can stay on the cutting edge.

Combine all this with selection and availability, and you also know why Pomona continues to be the world's leading supplier of quality test accessories.

Quality

Nobody beats Pomona in delivering price/value performance. We use the finest quality materials and manufacture our test accessories to exacting tolerances.

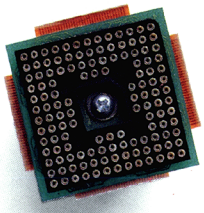
General

Items listed in this catalog are available from your local distributor. All items, lengths and colors not specifically listed are custom products. If you need any assistance, please call the Sales Representative listed on the inside back cover or call Pomona directly at (909) 469-2900.

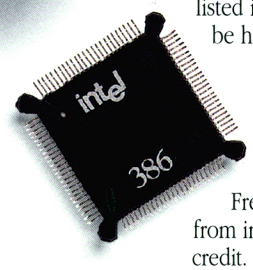
Wire and Cable Lengths

Lengths other than those listed can be ordered as custom products through your local Sales Representative.

Special Configurations



Pomona manufactures thousands of custom products to meet your particular needs. We will be happy to custom mold products with your logo. Because we are continually introducing new products, some may not yet be listed in the catalog. Please ask. We will be happy to quote to your design.



Terms

Freight F.O.B. factory, net 30 days from invoice date, upon approval of credit. Custom products are quoted on an individual basis.

Pomona Quality In Name

Warranty

All products carry a limited one-year warranty. It is the user's responsibility to read and understand all instructions supplied with each product. Customer safety is not assured if a product is misused or carelessly handled.

Worldwide Availability, Easy to Order

Pomona offers a variety of payment methods for your convenience. They include:

Advance Payment
Initial purchases should include payment with the order (check or money order only). We cannot open accounts or ship C.O.D.s to individuals. All cash-in-advance orders are shipped freight prepaid.

C.O.D.
We will ship orders C.O.D. to businesses by any method requested. However, we are unable to ship C.O.D. to individuals. Your firm's phone number is required before any shipment can be sent. All C.O.D. charges will be added to your order.

Open Account
If your company has a good credit rating and applicable bank references, you can establish an account within 24 hours. When placing your order, please include purchase order number, shipping/billing addresses, phone number and name of person placing order.

Credit Card
We accept VISA and MasterCard. Please call 1-800-ITT-Pomona. When placing your order, please furnish card number, expiration date and telephone number. We will ship your order immediately. A service charge will be applied.

ITT Pomona

FOR THE LOCATION OF THE SALES OFFICE NEAREST YOU, SEE PAGES 136-137.

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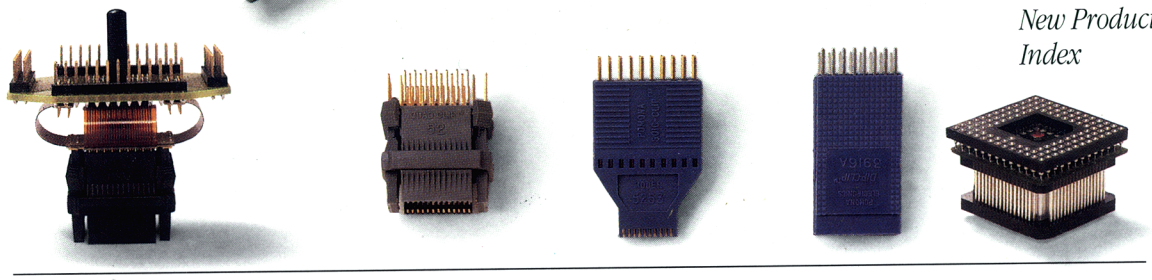

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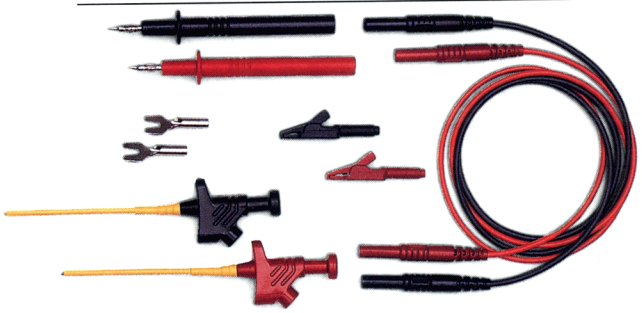

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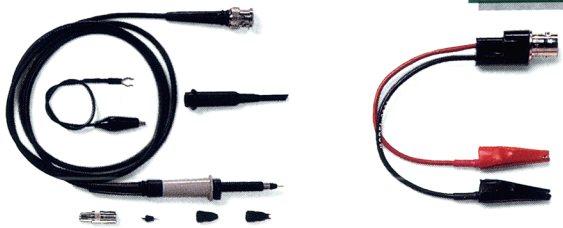

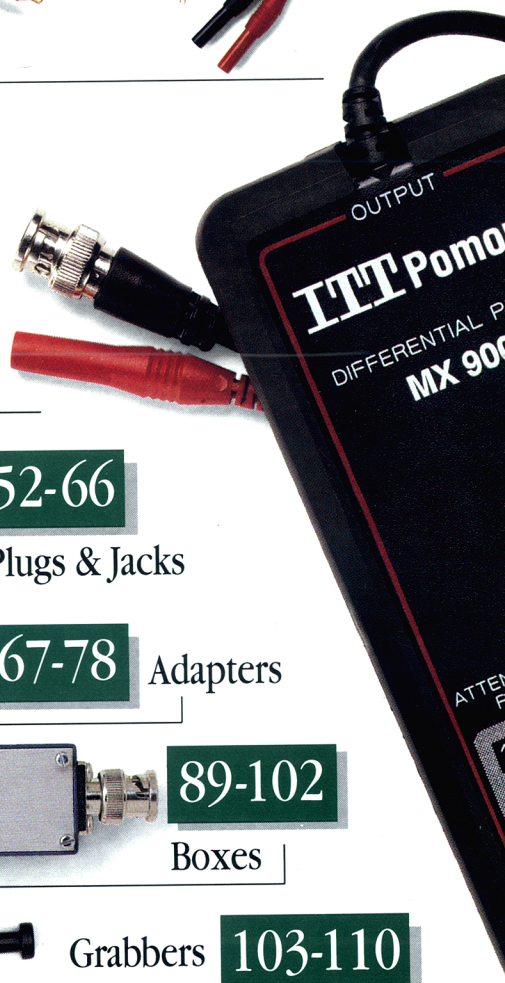

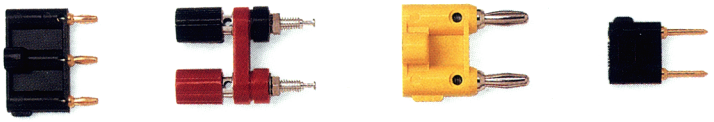

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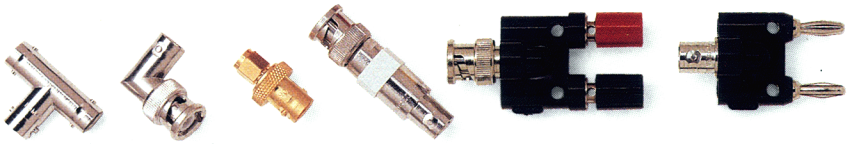

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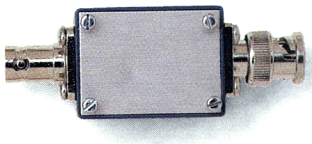
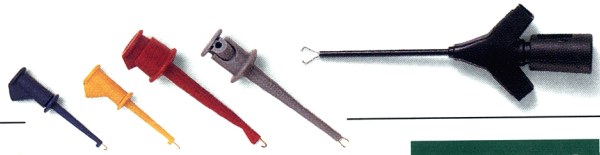


89-102 Boxes



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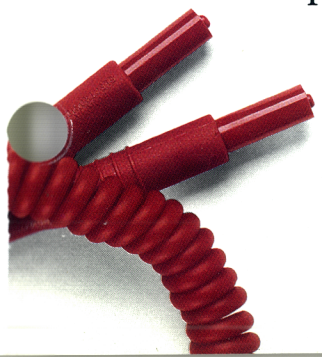
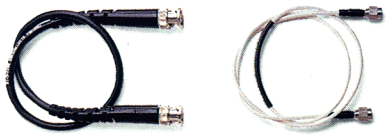




130-134 Audio-Video

135 Static Control Products

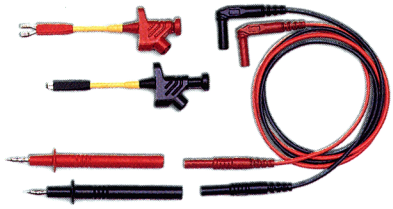
5940 Kelvin Clip *provides assured signal integrity for 6-1/2 digit DMMs. See page 29.*

18

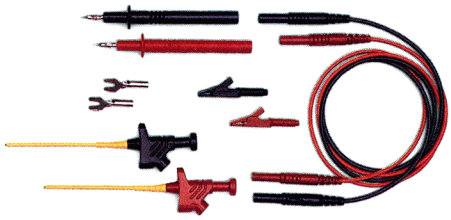
There is no better friend for DMM users than Pomona. You can quickly, safely choose from industry's most complete selection of DMM test accessories, including 18 versatile DMM test lead accessory kits. Each kit is packed with the right combination of items to answer specific test requirements, including added values such as operator-safe insulation, interchangeable test points and interfaces, and silicone insulation on many new kit test leads.

For extra value, several new individual DMM test accessory products are introduced. A new Flexible Maxigrabber® Test Clip features a fully-insulated double-gripping probe pincer that can be rotated for easy installation and will flex to access hard-to-reach areas. The insulation-piercing Maxigrabber® Test Clip allows you to probe insulated wire or cables without stripping the insulation. And, a complete, new family of fully-insulated alligator clips that assures operator-safe testing across a variety of uses while offering protection up to 250V.

You can count on Pomona to add value and longer service life to your DMM.



5900 Industrial Test Lead Kit *includes probe handles, test leads (right angle to straight), Maxigrabber® grip clips and a reusable pouch. See page 26.*



5901 Deluxe Bench DMM Kit *offers probe handles, test leads (straight to straight), flexible Maxigrabbers®, medium alligators, 2 spade lugs and a reusable pouch. See page 26.*

DMM Accessories & Kits

Interchangeable Probes

Pomona test leads are directly interchangeable with all popular DMMs and are typically superior to the originals. For your convenience, the table below gives the Pomona replacements for Fluke products. For complete product descriptions, see pages 26-29.

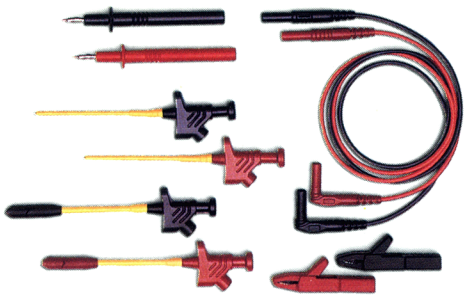
Fluke Cross Reference Description	Fluke	Pomona
1 pair: Maxigrabber® grip clips	AC 20	5912
1 pair: medium alligator clips	AC 75	5916
1 pair: Rigid Maxigrabber® test clips	AC 80	5911
1 pair: flexible Maxigrabber® clips	AC 83	5910
1 pair: extra large jaw alligator clips	AC 85	5914
1 pair: insulation piercing Maxigrabbers®	*AC 89	5913
Bench Meter Kits		
1 pair: probe handles, test leads (straight to straight plug)	Y 8132	5902
1 pair: probe handles, test leads (straight to straight plug), flexible Maxigrabber® test clips, medium alligator clips, 2 spade lugs	Y 8134	5901

Description Hand Held Kits	Fluke	Pomona
1 pair: probe handles, test leads (90° to straight plug), Maxigrabber® grip clips	TL 20	5900
1 pair: test leads, straight to straight plug	TL 22	5908
1 pair: test leads, 90° to straight plug	TL 24	5907
1 pair: Banana plug tip probe to 90° plug test leads	†TL 70A	5897
1 pair: extra durable tip probe to straight plug test leads	TL 75	5898
1 pair: probe handles w/sheathed jack	TP 22	5906

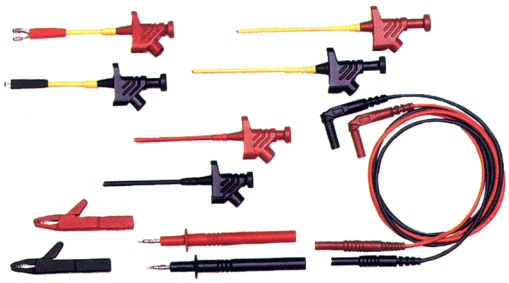
*AC 89 supplies only one red clip.
†Banana plug tip vs. .08 straight pin.

All above kits supplied with red and black (R&B) test leads.

FOR COMPLETE INFORMATION ON DMM TEST ACCESSORIES, SEE PAGES 26-39.



5903 Automotive DMM Kit *includes probe handles, test leads (right angle to straight), flexible Maxigrabbers®, insulation-piercing Maxigrabber® clips, extra large jaw alligator clips and a reusable pouch. See page 27.*



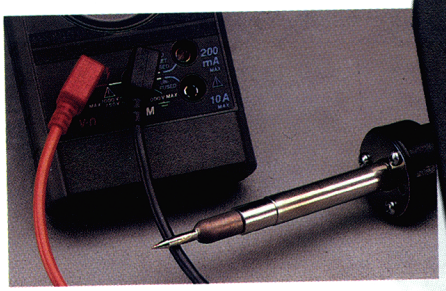
5904 Deluxe Electrical Kit *features probe handles, test leads (right angle to straight), flexible Maxigrabbers®, rigid Maxigrabber® clips, Maxigrabber® grip clips, extra large jaw alligator clips and a reusable pouch. See page 27.*

Test Accessories

Pomona interchangeability means you can easily change or replace almost any part of your DMM test lead set for greater versatility and added service life.

On selected probes, simply unscrewing the threaded cap on a probe handle let's you quickly and easily fix broken intermittent test leads in the field. Or you can choose the exact needle point tip, alligator clip, space lug or IC test tip to answer your application.

Our popular and economical "slide-on" tip styles give you the versatility usually found only in more expensive interchangeable tip accessories.



Silicone wire insulation is more flexible and easier to handle than conventional PVC insulation. It's also safer because, unlike PVC, silicone insulation doesn't burn or melt if accidentally touched with a soldering iron.

FOR COMPLETE INFORMATION, SEE PAGES 40-51.

11

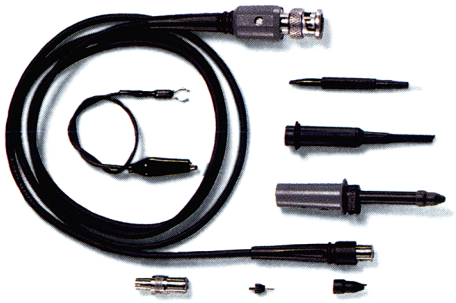
Leading a growing family of quality performing oscilloscope and benchtop test instrument accessories, Pomona offers 11 versatile Oscilloscope Probe Kits ready to deliver improved impedance and fast rise times for superior value/performance characteristics.

They provide interchangeable tips and interface connections for maximum versatility. And they serve as readily available replacements for most leading scope models to ensure longer service life.

Pomona's oscilloscope probe kits produce consistently accurate results time after time. Each kit is carefully designed for maximum versatility and reliability. This includes the correct cable length to keep noise and sporadic spikes to a minimum, and tips that meet most probe applications and integral connector-cable moldings for reliable pulses.

You can choose among 100MHz, 200MHz, 300MHz kits for the exact performance you require. Pomona's RF Detector Probe Kit is ideal for 10MΩ input scopes, featuring up to 800MHz bandwidth. And there's a complete family of replacement parts to extend the service life of your Pomona Oscilloscope Probe.

Of course, many of Pomona's other cable assemblies, adapters, connectors or test clips are natural complements to a Pomona Oscilloscope Probe. Be sure to take a look at these exciting quality products.



11 100MHz, 200MHz and 300MHz and RF Detector Oscilloscope Probe Kits *with replaceable parts. See pages 40-41.*

5942 Active Differential Probe Kit *extends the functionality of any oscilloscope. Kit includes MX900 Differential Probe, probe handles, Minigrabber® leads, medium alligator clips, spade lugs, reusable pouch and operating instructions. See page 42.*

Scope Accessories & Kits

You'll Find A Pomona Oscilloscope Probe Kit That's Right For You

MODEL	Use with the following popular oscilloscopes	
4550A	Beckman, Hitachi, Kikusui	All models
	Leader	200, 1021, 1041, 1060, 1100, 2100R, LCD-100, LBO-313, -315, -323, LBO-325, -516, -518
5792	Tektronix	T201, 222
	Beckman, Hitachi, Kikusui	All models
5795	Tektronix	300 Series
	Beckman, Hitachi, Kikusui	All models
	Hewlett Packard	1715, 1740 Series, 1950A, 5200A/D, 54112D, 54501A
	Leader	3060D, LBO-2060
5800	Tektronix	T201, 222
5803	Tektronix	300 Series
	Beckman, Hitachi, Kikusui	All models
	Hewlett Packard	1715, 1740 Series, 1805A, 1809A, 1950A, 1980A, 54501A, 54510A
	Phillips	3050, 3052, 3055, 3057, 3065, 3070, 3206, 3215, 3217, 3219, 3256, 3264, 3266, 3267, 3280, 3285, 3286, 3302, 3305, 3308, 3310, 3311, 3315, 3320, 3335, 3350, 3355, 3365, 3375
	Leader	3060D, LBO-2060
5809	Hewlett Packard	1720 Series, 54201
	Phillips	3290, 3295, 3296, 3323
5812	Tektronix	485, 2465, 7A42

The above recommended probe models are based on available manufacturers' specifications.
Pomona is not responsible for exact performance characteristics due to variances in scope specifications or operation.

Q

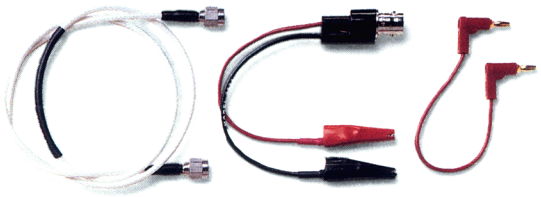
Pomona's cables, adapters and connectors feature the quality and performance characteristics that assure long life and reliability. You can choose from a complete family of industry's finest cable assemblies. Virtually any connector combination in typical lengths from 12" to 48" (BNC cables to 120") can be specified, including many industry-standard lengths available from stock through your nearest Pomona distributor.

Leading the way, Pomona's 2249-C Male BNC/Coax cable features a molded stress relief boot and male BNC connectors on each end. Connectors feature gold-plated center pins and tarnish-resistant plating on the body. An extra-long stress relief is molded onto the connector and cable for long life and protection against contaminants. It is available from 12" to 180".

Another example, Pomona's "B" cord features popular 18AWG, PVC insulated wire with stacking banana plugs. Nickel plated beryllium copper springs are swaged in a brass body for best spring retention, low contact resistance and long life. (Available in 10 colors, lengths from 4" to 72".)

We've only mentioned a few, but the quality is the same, regardless of the cable, patch cord, jumper, adapters or connectors you select. Made to last a lifetime, versatile by selection.

Pomona's Cable and Test Lead Racks offer fingertip convenience, ideal for lab or shop. Keeps cables and leads neat, easy to select. Available in 3 sizes. *See page 126.*



Choose from a complete family of quality jumpers and cables, featuring beryllium copper banana springs for best contact life and lowest resistance, or grabber and pincer test lead assemblies with beryllium copper or stainless steel contacts with gold plating. Selections include miniature and standard banana patch cords, spade lug, BNC, TNC, pin tip, insulated minigators and alligators, UHF, "N", triax, phono, "F" and phone styles. *See pages 107-134.*

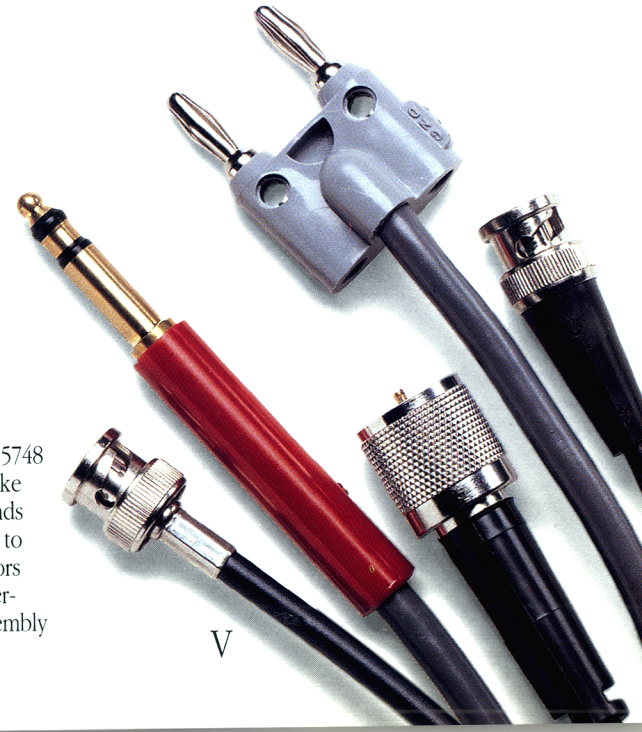
Cable, Adapters & Connectors

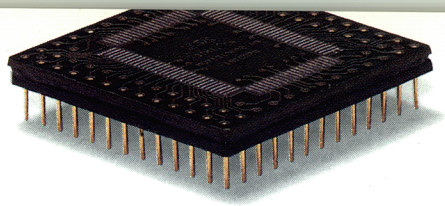
BNC, SMA, Type "N" and Banana Adapters

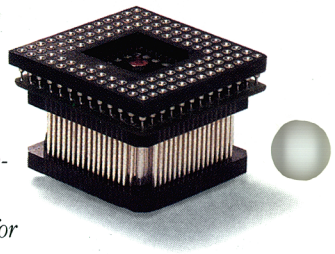
You'll find a complete assortment including binding post adapters, phono plug and jack adapters, BNC adapters in various male/female configurations, SMA adapters, SMA/BNC adapters, Type N adapters (BNC and SMA) and BNC/UHF adapters. See pages 74-78.

Universal Adapter Kits

Model 5698 Universal Adapter Kit and 5748 Maxi Universal Adapter Kit allow you to make your own adapter combinations. Adapter ends are joined with coupling nuts, allowing you to choose your own combination. All connectors feature gold-plated center contacts and silver-plated bodies. Universal Adapter Cable Assembly works ideally with each kit. See page 76.







SMT/PGA Converter *(above) allows low-cost SMDs to be plugged into through-hole boards.*

PGA Spring-Loaded Pin Adapter *for SMT boards (right) enables board testing without a mounted device.* *See page 19.*

256

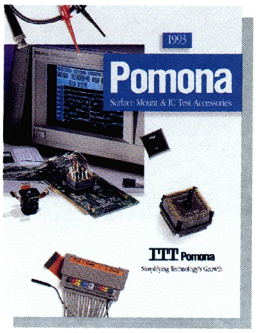
Pomona lists over 100 models of IC test clips, adapters and breakouts, including models to access up to 256 leads on a single chip, all designed specifically to answer the needs of the user. An all-new, easy-to-use reference will guide anyone seeking to access these fine-pitch devices (see pages 16-17).

Pomona's FIN™ (Flexible Interface Network) test clips include a new PGA socketed platform interface. Pomona's newest test clips offer accurate test solutions for new low-profile, fine-pitch packages such as SQFP, SSOP and PQFP styles.

Capable of accessing lead densities of 0.5mm or less and unit heights of 1.4mm or less, Pomona's latest technology will allow reduced time-to-market for new test clip configurations.

Selecting the proper test clip on the basis of device nomenclature alone increases the risk of improper fit. Instead, you must take several factors into consideration such as pin count, industry standard (JEDEC or EIAJ), package configuration (square, rectangular, two or four sides) pin-to-pin spacing (pitch), package type, footprint standards and top-side interfaces.

To make selecting the right test clip easier, Pomona developed an SMT/IC Product Selection Guide, which is featured in the pages of this catalog. You simply identify your chip's characteristics to select the proper Pomona test clip.



FREE SMT/IC Test Accessories Catalog
Call, fax or write today for your free copy of Pomona's full-color, 24-page Surface Mount and IC Test Accessories Catalog.

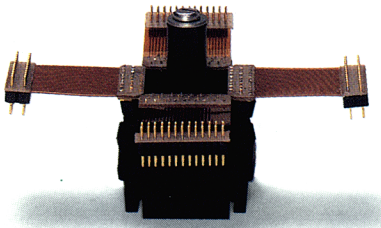
Rotating Micrograbber™
Pomona's Rotating Micrograbber™ is ideal for surface-mounted devices (SMDs) and high-density lead testing for spacings of 1.2mm (0.05") or for testing fine gauge wire (0.2mm, 0.004"). Insulated extended guide tube reaches into tight areas. *See page 24.*

SMT/IC Test Accessories

FIN™ Flexible Interface Network

FIN™, the Flexible Interface Network, is ideal for design emulation, production or field service testing and repair. Pomona's FIN test clips are provided in four versatile styles to accommodate virtually all QFP devices. The length of the FIN clip's flex circuitry provides the shortest distance possible between device and test connection for reduced signal noise. Individual contacts conform to variances in lead dimensions.

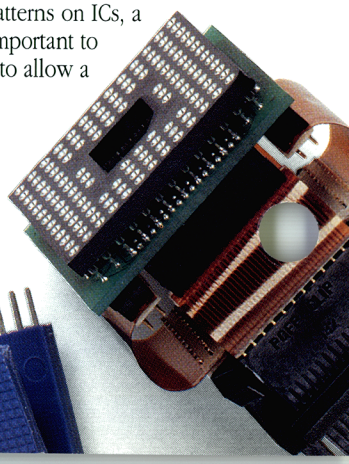
Based on the same "lock-on" design as Pomona's popular QFP test clip series, a two-step alignment process assures the best alignment and contact with all pins for guaranteed testing and reliability. See pages 14-15.



DIP Clips
DIP, SOIC and PLCC test clips make SMTs and through-hole mounted ICs easy to test.

Ensuring the Correct Top-Side Interface

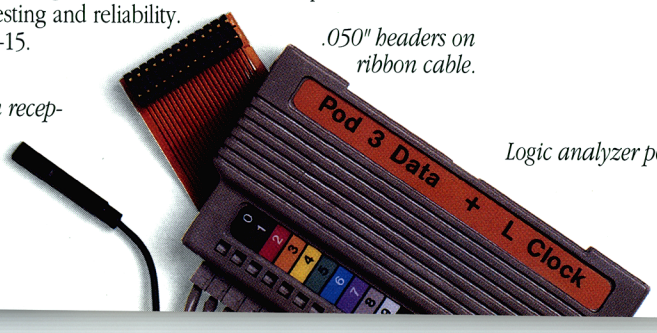
For the majority of simple device testing such as DIPs and PLCCs, the pins located at the top of the test clip will easily accept most popular test probes or grabbers. However, with the increasing use of logic analyzers or special black box testers to test high-density lead patterns on ICs, a choice of interfaces is important to reduce set-up time and to allow a variety of test functions.



FIN™ Clip
test clip with PGA socket platform.

.050" headers on ribbon cable.

Square pin receptacle lead.



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* Item can be built to order

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5826	41	5861 New	19	5892 New	17	5924 New	24	6001 New	34
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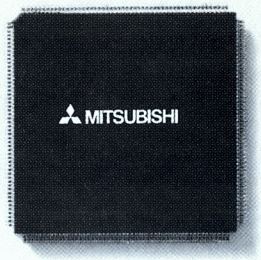
5830	105	5864 New	17	5895 New	16	5927 New	24		

* Item can be built to order

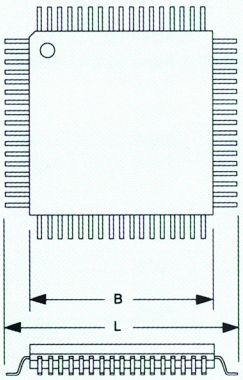
Selecting The Right Test Clip

84-pin PLCC



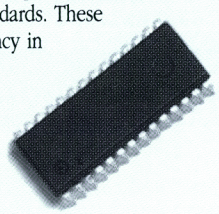
208-pin EIAJ QFP

Selecting the right test clip used to be easy — and still is for the older, traditional IC packages. Identify the type of package, such as DIP or PLCC, and count the leads. Lead spacing is a standard .100" or .050". Package case dimensions are standard. Packages and lead spacing are large enough that it's even possible to "fudge" and put a 14-pin clip on a 28-pin device and still get a good connection to some of the signals. However, with many of the newer devices, the whole picture has changed. Package size can be narrower, height can be thinner, and with significantly increased pin count due to reduced pin spacing (.025" and less). Confident selection of a test clip can no longer be made based on a simple device description.



The standards aren't always the same

Generally, chip manufacturers produce their devices to either JEDEC or EIAJ standards. These standards seem to assure a consistency in package size and height, and the configuration and spacing of lead pins. But it isn't necessarily so. The allowable tolerances are so great that differences between manufacturers — indeed between different plants of the same manufacturer — require different test clips for devices with the same part number. The legs may be bent differently. The devices may be manufactured to English or Metric standards. Even the body cavity configuration may vary.



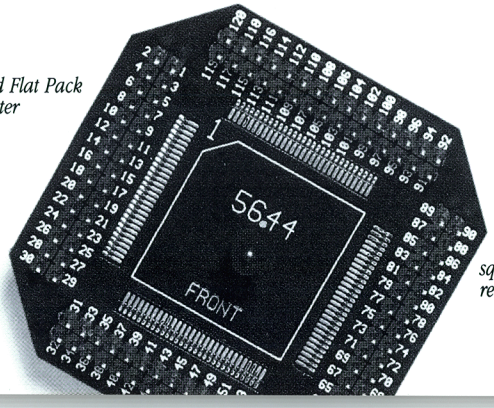
Therefore, the selection of the proper test clip must take much more into consideration. Pin count, Industry Standard (JEDEC or EIAJ), package configuration (square, rectangular, two sides or four), pin-to-pin spacing (pitch), package type, footprint standards, and top-side interface must also be considered. EIAJ Devices are manufactured to two footprint standards, often referred to as 3.2 or 3.9. The numbers refer to the difference between the outer perimeter dimension of the leads (see "L" in left diagram), and the nominal dimension of the body or case (B). For example, JEDEC standard MO-112 shows L-B=3.9mm, while standard MO-108 shows L-B=3.2mm. Only by careful review of package specifications will you be able to tell which standard was chosen to manufacture your chip. These variations can even show up in devices of the same part number from the same manufacturer!

Due to these variations as well as the rapid development of new devices with smaller body sizes and finer pitched leads, each of these parameters become increasingly important. When a test clip is selected just on the basis of device nomenclature instead of describing each of these parameters, the risk of improper test clip fit is increased.

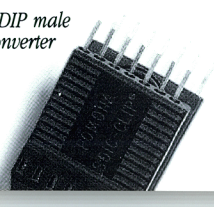
Making sure the test clip you select provides the correct top-side interface.

Another consideration in selecting the right clip for new, fine-pitch devices is their interface with test instrumentation at the top-side of the clip. For the majority of simple device testing such as DIPs and PLCCs, the pins located at the top of the test clip will easily accept most popular test probes or grabbers. However, with the increasing use of logic analyzers or special black box testers, a choice of interfaces will be important to reduce set-up time and allow a variety of test functions.

EIAJ Plastic Quad Flat Pack (PQFP) test adapter

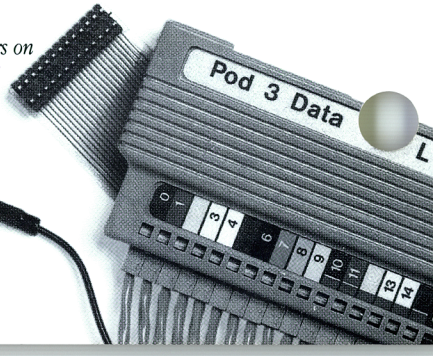


.100" DIP male pin converter

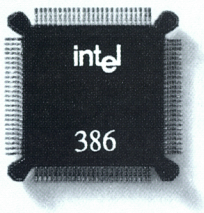


.050" headers on ribbon cable

square pin receptacle lead

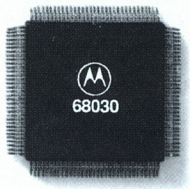


Pomona's latest technology developments will introduce test clip designs that mean reduced time-to-market for test clips to access chips with lead densities of 0.5mm or less and unit heights of 1.4mm or less. A patented process provides dimensional stability and ease of manufacture, combining the best features of Pomona's high density test clips.

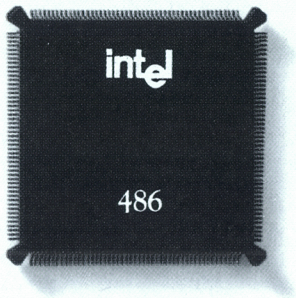


100-pin JEDEC PQFP

32-pin (7x9) PLCC

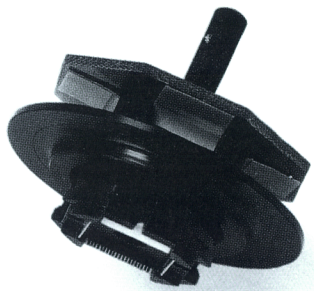


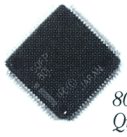
128-pin EIAJ QFP (M68020/030 Series)



196-pin JEDEC QFP

24-pin SSOP (In-Line, Shrink Small Outline Package); or, QSOP (Quarter Size)



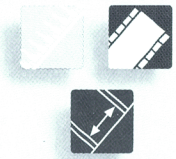


80-pin SQFP (Small Quad Flat Pack)

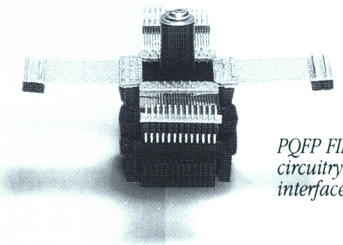
How to make selecting the right test clip easier

Identify the following characteristics about your device, then refer to pages 16-17 to select the correct Pomona test clip. In some cases the manufacturers drawings may not provide all the information and the leads and case must be measured to be certain of dimensions. Even this can be misleading, and as much detail as possible is recommended. Of course, providing a sample to Pomona can assure the correct test clip will be selected.

Once identified, simply contact your nearest Pomona representative or the factory with the model number of the Pomona test clip you need. You will be testing quickly, and reliably.

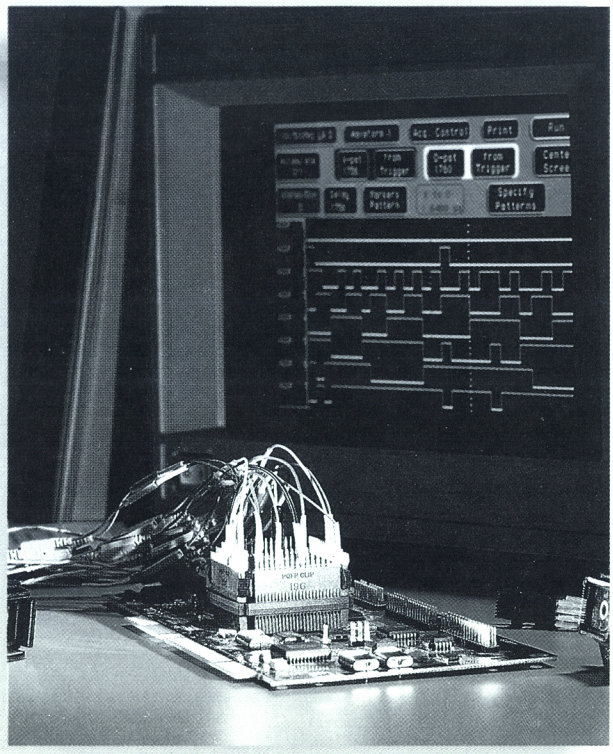


- *NUMBER OF LEADS (pin count)*
- *PACKAGE CONFIGURATION (sides...2, 4)*
- *LEAD PATTERN (4x4, 7x7, 16x24, etc.)*
- *LEAD SPACING*
- *PACKAGE TYPE (DIP, PLCC, SOIC, QFP, PQFP, SQFP, SSOP)*
- *STANDARD (EIAJ or JEDEC)*
- *FOOTPRINT (3.2 or 3.9 & mm -EIAJ only)*
- *INTERFACE (top side interconnection method)*



PQFP FIN test clip with flexible circuitry-to-0.050" connector interface

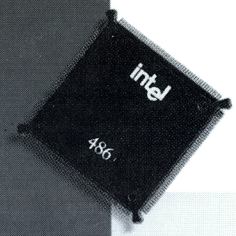
Pomona's Flexible Interface Network (FIN) test clips provide a simple solution to such considerations by providing a choice of top-side interfaces: industry-standard .100" x .100" pins on a platform allow for grabbers or industry standard (IDC) connector cable connections; a platform with an .050" x .100" header interfaces most ribbon cables or pods as used on most leading logic analyzers; .050" x .100" header on flexible circuitry supports direct attachment to an emulation board or your own interface board. In addition, you can use Pomona Flying Leads to extend test clip interconnections.



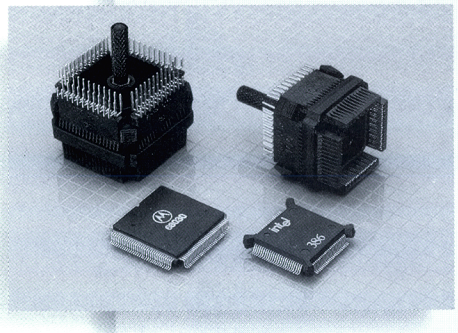
196-pin PQFP test clip with flying leads interfaces with logic analyzer cables

logic analyzer pod

SMT/IC Test Clips/Adapters



To make testing easier and more reliable, Pomona offers industry's most complete selection of standard and fine-pitch IC test clips and accessories. You can select the best test clip, breakout or interface for your specific SMT/IC testing requirements. By identifying the device you wish to test first from the tables on pages 16-17, you can quickly see the style and options available.

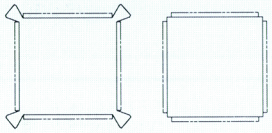


Lock-on QFP test clips can access all 132 pins of a Motorola 68020 or 68030 (Model 5711) or all 100 pins of an Intel 80386SX device (Model 5713). Also available in 196-pin style (Model 5715).

QFP Series

The savings experienced compared to hand wiring or other methods makes the QFP test clip an ideal test accessory for use with logic analyzers, on-line circuit test systems, or laboratory instrumentation. A "locking" feature insures positive device and lead contact in either a vertical or horizontal position.

Gold plated, beryllium copper pins contact with the ICs gull-wing leads, and access is via multi-rows of gold plated phosphor-bronze pins at the top-side of the test clip. Each Pomona QFP test clip is furnished with a slip-in generic template to enable testing of either CQFP (MO-082) or PQFP (MO-69) devices with the same test clip (see left diagram).



Plastic QFP (MO-069) *Ceramic QFP (MO-082)*

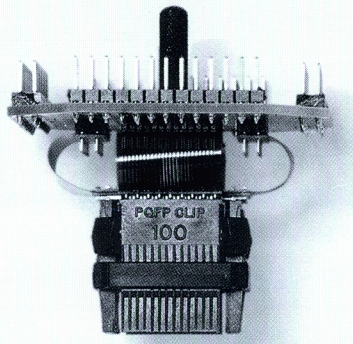
Test Clip Kits

A QFP Test Clip Kit provides all the flying leads and a Pomona QFP test clip for all needed items to work with most test instruments.

QFP Test Clip Kits: Kit No. 5764 contains a Model 5713 100-pin test clip and 100 flying leads in 10 colors (fits Intel 80386SX); 5765 132-pin with 132 flying leads; 5829 196-pin with 200 flying leads.

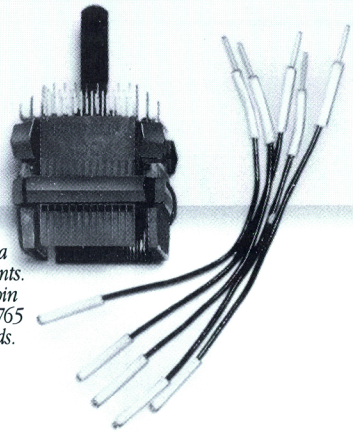
FIN.™ Flexible Interface Network

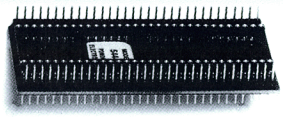
Ideal for design emulation, production or field service testing and repair. Pomona's FIN test clips are provided in four versatile styles to accommodate virtually all QFP devices. The length of the FIN clip's flex circuitry provides the shortest distance possible between device and test connection for reduced signal noise. Individual



Flexible circuit-to-.100" centered headers on board platform interface. Available with on-board PGA socket platform (shown far right).

Board Platform		PGA Platform	
Model	Pins	Model	Pins
5885	68	5918	68
5886	84	5919	84
5777	100	5875	100
5780	132	5876	132
5887	164	5920	164
5783	196	5877	196





DIP Socket Pin Breakout
40, 48, 64-pin

A Complete Family.

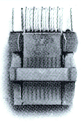
DIP/SOIC Test Clips

DIP CLIP® Test Clips 8, 14, 16, 20, 24, 40-pin. Gold Plated Beryllium Copper or Spring Tempered Nickel Silver

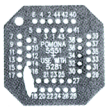
SOIC CLIP® Test Clips
8, 14, 16, 20, 24, 28-pin

Oxide Penetrating Clips (roughened stainless steel coating on contacts)
8, 14, 16, 20, 24, 40-pin

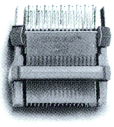
PLCC Test Clips



5733 PLCC QUAD CLIP® Test Adapter (7x9) 32-Pin EEPROM



PLCC QUAD CLIP® Templates (Fits Quad Clips)
20, 28, 32, 44, 52, 68, 84-pin



QUAD CLIP® Test Adapters Tests PLCC or PCC "J" leaded devices.
20, 28, 44, 52, 68, 44-pin

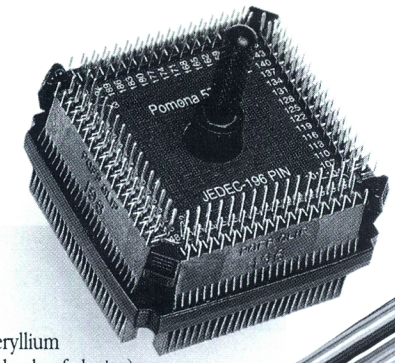
PLCC and SOIC Clip Flying Leads
5 per kit; 0.64 (.025) socket one end, 0.79 (.031) pin at opposite end.
Available in 10 std. colors.

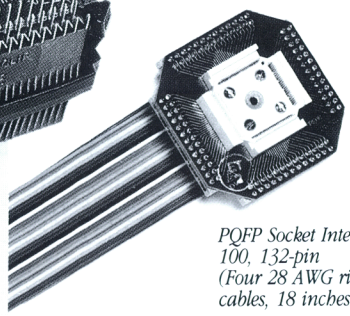
Test Clips Meet Your Needs Both Ways.

contact wiper action conforms to variances in lead dimensions.

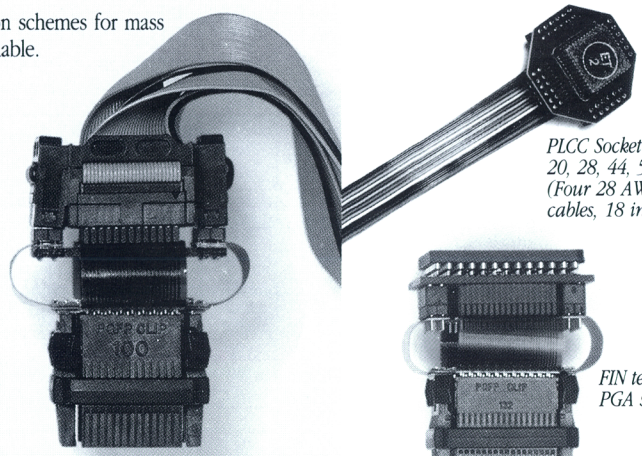
Based on the same "lock-on" design as Pomona's popular QFP test clip series, the FIN clip series assures the best alignment and contact with all pins for guaranteed testing reliability.

CONTACTS: Gold plated beryllium copper (contacts gull-wing leads of device); top interface pins, gold plated phosphor bronze.
INSULATION: Liquid crystal polymer and nylon, black.
RATING: 250 VRMS, 1 Amp Max., +110°C (230°F) Max.
Additional connection schemes for mass termination are available.
Contact factory.

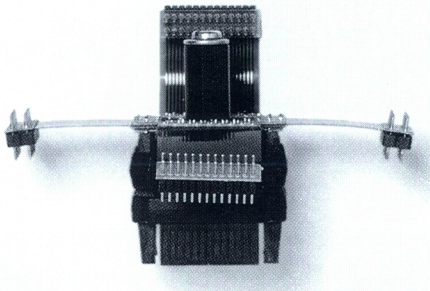




PQFP Socket Interface 100, 132-pin (Four 28 AWG ribbon cables, 18 inches long)



PLCC Socket Interface 20, 28, 44, 52, 68, 84-pin (Four 28 AWG ribbon cables, 18 inches long)

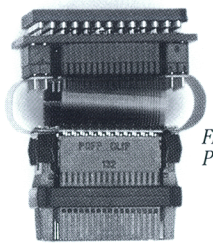


Flexible interface ribbon (4)-to-.050" headers

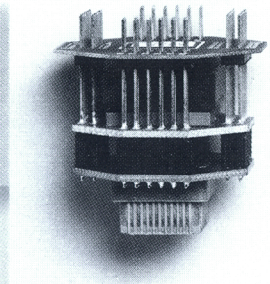
Model	Pins
5879	68
5880	84
5775	100
5778	132
5881	164
5781	196

Flexible circuit-to-0.050" center board interface (ribbon cable not included)

Model	Pins
5882	68
5883	84
5776	100
5779	132
5884	164
5782	196



FIN test clip with PGA socket platform.

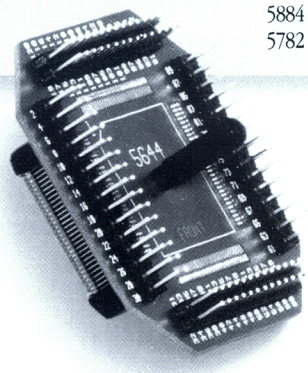


Testing socket mounted PLCCs is fast and accurate with Pomona's 5450 series pin breakouts. Six styles from 20 to 84 pins; includes overlay template for easy pin identification.

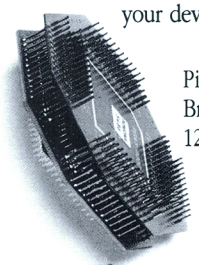
Adapters, Breakouts & Interfaces

Pomona features industry's largest selection of adapters, breakouts and interfaces for all styles of ICs and newest SMT devices.

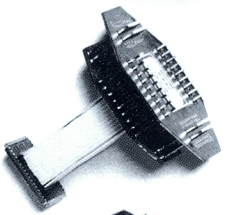
See pages 16-17 for specific model to fit your device.



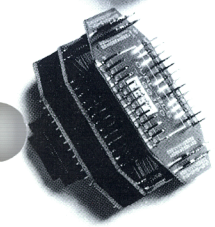
EIAJ Plastic Quad Flat Pack (PQFP) Test Adapters 80, 100 (rectangular), 100 (square), 112, 120, 128, 144, 160, 168, 184, 208-pin



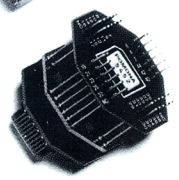
Pin Grid Array (PGA) Pin Breakout 68 (10x10, 10x11), 120 (13x13), 128 (13x13), 132 (14x14) pin (includes overlay for pin identification)



LCC Pin Breakout 44, 68, 84-pin



PQFP Pin Breakout 100 (Amp or 3M), 132 (Amp or 3M) pin



PLCC Pin Breakouts 20, 28, 32, 44, 52, 68, 84-pin (includes overlay for pin identification)

Easy to use, easier to specify.

Finding the right test clip for the device you want to test is simple if you can provide the basic information noted in the table on pages 16-17. If you cannot find a standard Pomona test clip design to answer your specific needs, call your nearest Pomona representative or the factory for immediate assistance.

See the easy-to-use selection guide to SMT/IC test clips on the following pages...

SMT/IC Product Selection Guide

The following Pomona products are usually available immediately unless noted otherwise. Once you have selected the test clip to meet your needs, or, if you cannot find what you need, contact your nearest Pomona SMT/IC test clip representative.

SOIC test clips for 8-28 pin devices
Clip Type 1

DIP (Dual In-Line) test clips for 8-40 pin devices
Clip Type 1
Clip Type 2 (High Density)

Quad Clip® PLCC test clips for 20-84 pin devices
Clip Type 3

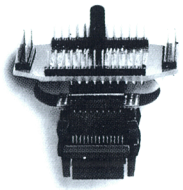
# Leads	Sides	Lead Pattern	Lead Spacing	Pkg Type	Standard	Footprint	Model No.	Clip Type	Interface	Remarks
1	1	1	.100"	DIP			5083	1	.025" sq pin	Ten colors
8	2	4+4	.100"	DIP			5108	1	.025" sq pins @.10	Gold Plate
8	2	4+4	.100"	DIP			5208	2	.025" sq pins @.10	Gold Plate
8	2	4+4	.050"	SOIC			5250	1	.025" sq pins @.10	Gold Plate
14	2	7+7	.100"	DIP			5014	1	.025" sq pins @.10	Nickel Silver
14	2	7+7	.100"	DIP			5214	1	.025" sq pins @.10	Gold Plate
14	2	7+7	.100"	DIP			5114	2	.025" sq pins @.10	Nickel Silver
14	2	7+7	.100"	DIP			5314	2	.025" sq pins @.10	Gold Plate
14	2	7+7	.050"	SOIC			5251	1	.025" sq pins @.10	
14	2	7+7	.050"	SOIC			5413	3	.025" sq pins @.10	
16	2	8+8	.100"	DIP			3916A	1	.025" sq pins @.10	Nickel Silver
16	2	8+8	.100"	DIP			5116	1	.025" sq pins @.10	Gold Plate
16	2	8+8	.100"	DIP			4236A	2	.025" sq pins @.10	Nickel Silver
16	2	8+8	.100"	DIP			5216	2	.025" sq pins @.10	Gold Plate
16	2	8+8	.050"	SOIC			5252	1	.025" sq pins @.10	
20	2	10+10	.100"	DIP			5120	1	.025" sq pins @.10	Gold Plate
20	2	10+10	.100"	DIP			5220	2	.025" sq pins @.10	Gold Plate
20	2	10+10	.050"	SOIC			5253	1	.025" sq pins @.10	
20	4	5X5	.050"	PLCC			5279	3	.025" sq pins @.10	
24	2	12+12	.100"	DIP			4124A	1	.025" sq pins @.10	Nickel Silver
24	2	12+12	.100"	DIP			5124	1	.025" sq pins @.10	Gold Plate
24	2	12+12	.100"	DIP			4324A	2	.025" sq pins @.10	Nickel Silver
24	2	12+12	.100"	DIP			5224	2	.025" sq pins @.10	Gold Plate
24	2	12+12	.050"	SOIC			5254	2	.025" sq pins @.10	
24	2	12+12	.025	SSOP			5962	3	High Density Connector	Due 1993
28	2	14+14	.050"	SOIC			5437	1	Standard Density Connector	
28	4	7X7	.050"	PLCC			5280	3	Standard Density Connector	
28	2	14+14	.025"	SSOP			5889	3	To Be Determined	Contact Factory
32	4	7X9	.050"	PLCC			5733	3	Standard Density Connector	
40	2	20+20	.100"	DIP			4140A	1	.025" sq pins @.10	Nickel Silver
40	2	20+20	.100"	DIP			5140	1	.025" sq pins @.10	Gold Plate
40	2	20+20	.100"	DIP			4340A	2	.025" sq pins @.10	Nickel Silver
40	2	20+20	.100"	DIP			5240	2	.025" sq pins @.10	Gold Plate
44	4	11X11	.050"	PLCC			5281	3	.025" sq pins @.10	
44	4	11X11	.80mm	PQFP			5961	4	.025" sq pins @.10	Contact Factory
48	2	12X12	.50mm	SQFP			5873	3	To Be Determined	Contact Factory
48	2	24+24	.025"	SSOP			5893	3	Standard Density Connector	Due 1993
52	4	13x13	.050"	PLCC			5312	3	Standard Density Connector	
52	4	13x13	1.0mm	QFP	EIAJ		5866	4	Standard Density Connector	Due 1993
56	2	28+28	.025"	SSOP			5894	3	To Be Determined	Due 1993
60	2	30+30	.50mm	SSOP			5895	3	To Be Determined	Contact Factory
64	4	16X16	.80mm	QFP	EIAJ		5888	4	To Be Determined	Contact Factory
64	4	16X16	.50mm	SQFP	EIAJ		5874	4	High Density Connector	Contact Factory
68	4	17X17	.050"	PLCC			5401	3	Standard Density Connector	
68	4	17X17	.025"	PQFP	JEDEC		5863	3	Discrete	Due 1993
68	4	17X17	.025"	PQFP	JEDEC		5885	3	Standard Density Connector	Due 1993
68	4	17X17	.025"	PQFP	JEDEC		5879	3	Flexible Interface Network	Due 1993
68	4	17X17	.025"	PQFP	JEDEC		5882	3	High Density Connector	Due 1993
68	4	17X17	.025"	PQFP	JEDEC		5918	3	PGA Socket	Due 1993
80	4	16X24	.80mm	QFP	EIAJ	3.9	5751	4	Standard Density Connector	
80	4	16X24	.80mm	QFP	EIAJ	3.2	5751-2	4	Standard Density Connector	
80	4	20X20	.65mm	QFP	EIAJ		5867	4	To Be Determined	Contact Factory
80	4	20X20	.50mm	SQFP	EIAJ		5871	4	Standard Density Connector	

Follow these simple steps.

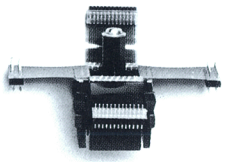
By identifying the characteristics of your device (chip) you can easily select a standard Pomona test clip from the table above. For easiest selection criteria, identify each parameter starting from the left column (number of leads), working across the table to the "Model" column, where a Pomona test clip will be identified by part number.

All Pomona SMT/IC test clips are manufactured to the highest standards of quality and with the finest materials available. As manufacturing processes and designs are continually improving, material and other specifications may change, however the performance and reliability of the Pomona test clip will remain.

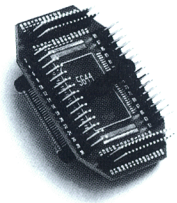
# Leads	Sides	Lead Pattern	Lead Spacing	Pkg Type	Standard	Footprint	Model No.	Clip Type	Interface	Remarks
84	4	21X21	.050"	PLCC			5402	3	Standard Density Connector	
84	4	21X21	.025"	PQFP	JEDEC		5864	3	Discrete	Due 1993
84	4	21X21	.025"	PQFP	JEDEC		5886	3	Standard Density Connector	Due 1993
84	4	21X21	.025"	PQFP	JEDEC		5880	3	Flexible Interface Network	Due 1993
84	4	21X21	.025"	PQFP	JEDEC		5883	3	High Density Connector	Due 1993
84	4	21X21	.025"	PQFP	JEDEC		5919	3	PGA Socket	Due 1993
100	4	25X25	.025"	PQFP	JEDEC		5713	3	Discrete	
100	4	25X25	.025"	PQFP	JEDEC		5764	3	Kit w/Flying Leads	
100	4	25X25	.025"	PQFP	JEDEC		5777	3	Standard Density Connector	
100	4	25X25	.025"	PQFP	JEDEC		5775	3	Flexible Interface Network	
100	4	25X25	.025"	PQFP	JEDEC		5776	3	High Density Connector	
100	4	25X25	.025"	PQFP	JEDEC		5875	3	PGA Socket	Due 1993
100	4	25X25	.80mm	QFP	EIAJ	3.9	5769	4	Standard Density Connector	
100	4	25X25	.80mm	QFP	EIAJ	3.2	5769-2	4	Standard Density Connector	
100	4	20x30	.65mm	QFP	EIAJ	3.9	5643	4	Standard Density Connector	
100	4	20X30	.65mm	QFP	EIAJ	3.2	5643-2	4	Standard Density Connector	
100	4	25X25	.50mm	SQFP	EIAJ		5872	4	High Density Connector	Due 1993
112	4	28X28	.65mm	QFP	EIAJ		5868	4	Standard Density Connector	Contact Factory
120	4	30X30	.80mm	QFP	EIAJ	3.9	5644	4	Standard Density Connector	
120	4	30X30	.80mm	QFP	EIAJ	3.2	5644-2	4	Standard Density Connector	
128	4	32X32	.80mm	QFP	EIAJ	3.9	5772	4	Standard Density Connector	
128	4	32X32	.80mm	QFP	EIAJ	3.2	5772-2	4	Standard Density Connector	
132	4	33X33	.025"	PQFP	JEDEC		5711	3	Discrete	
132	4	33X33	.025"	PQFP	JEDEC		5765	3	Kit w/Flying Leads	
132	4	33X33	.025"	PQFP	JEDEC		5780	3	Standard Density Connector	
132	4	33X33	.025"	PQFP	JEDEC		5778	3	Flexible Interface Network	
132	4	33X33	.025"	PQFP	JEDEC		5779	3	High Density Connector	
132	4	33X33	.025"	PQFP	JEDEC		5876	3	PGA Socket	
144	4	36X36	.65mm	QFP	EIAJ	3.9	5773	4	Standard Density Connector	
144	4	36X36	.65mm	QFP	EIAJ	3.2	5773-2	4	Standard Density Connector	
160	4	40X40	.65mm	QFP	EIAJ	3.9	5645	4	Standard Density Connector	
160	4	40X40	.65mm	QFP	EIAJ	3.2	5645-2	4	Standard Density Connector	
164	4	41X41	.025"	PQFP	JEDEC		5865	3	Discrete	Due 1993
164	4	41X41	.025"	PQFP	JEDEC		5887	3	Standard Density Connector	Due 1993
164	4	41X41	.025"	PQFP	JEDEC		5881	3	Flexible Interface Network	Due 1993
164	4	41X41	.025"	PQFP	JEDEC		5884	3	High Density Connector	Due 1993
164	4	41X41	.025"	PQFP	JEDEC		5920	3	PGA Socket	Due 1993
168	4	42X42	.65mm	QFP	EIAJ	3.9	5774	4	Standard Density Connector	
168	4	42X42	.65mm	QFP	EIAJ	3.2	5774-2	4	Standard Density Connector	
184	4	46X46	.65mm	QFP	EIAJ	3.9	5771	4	Standard Density Connector	
184	4	46X46	.65mm	QFP	EIAJ	3.2	5771-2	4	Standard Density Connector	
196	4	49X49	.025"	PQFP	JEDEC		5715	3	Discrete	
196	4	49X49	.025"	PQFP	JEDEC		5829	3	Kit w/Flying Leads	
196	4	49X49	.025"	PQFP	JEDEC		5783	3	Standard Density Connector	
196	4	49X49	.025"	PQFP	JEDEC		5781	3	Flexible Interface Network	
196	4	49X49	.025"	PQFP	JEDEC		5782	3	High Density Connector	
196	4	49X49	.025"	PQFP	JEDEC		5877	3	PGA Socket	Due 1993
208	4	52X52	.50mm	QFP	EIAJ	2.6	5770	4	Standard Density Connector	
208	4	52X52	.50mm	QFP	EIAJ	2.0	5770-2	4	Standard Density Connector	Contact Factory
232	4	58X58	.65mm	QFP	EIAJ		5890	3	Standard Density Connector	Contact Factory
240	4	60X60	.50mm	QFP	EIAJ		5891	3	Standard Density Connector	Contact Factory
256	4	52X72	.50mm	QFP	EIAJ		5892	3	Standard Density Connector	Contact Factory



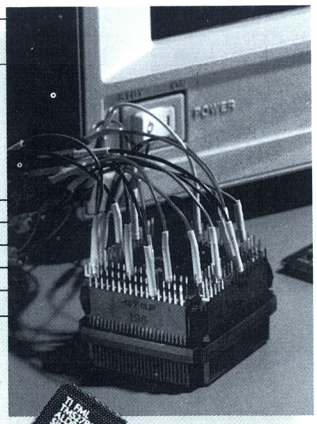
FIN™ Flexible Interface Network test clip with .100" standard density interface Clip Type 3



FIN™ test clip with flexible interface ribbon and .050" headers (4) Clip Type 3



EIAJ Plastic Quad Flat Pack (PQFP) for 80-208 pin devices Clip Type 4



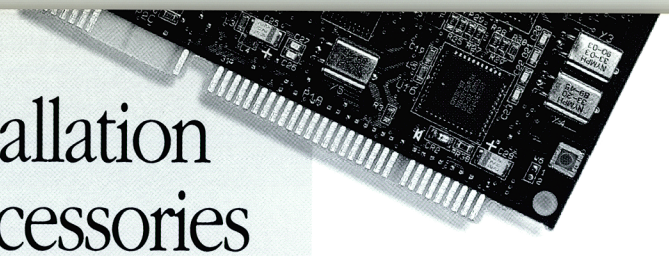
Hewlett-Packard Logic Analyzer being used with Pomona's 196-pin PQFP test clip and flying leads for interfacing with instrument cables.

Special requirements & assistance.

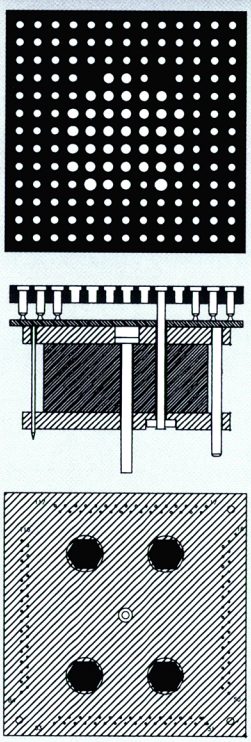
Although the latest SMT/IC devices are included in this listing, and test requirements will be answered by the standard Pomona products listed here, we acknowledge the rapid development of even newer fine-pitch devices and the possibility that a specific device may be introduced that cannot be matched to one of these quality products.

If you determine that your device configuration is not included among these listed standards, immediately contact your supplier to determine the unique specifications, or contact your nearest Pomona representative or the factory for assistance.

FOR TECHNICAL ASSISTANCE, CALL (909) 469-2912.



Pre-Installation Test Accessories For Fine-Pitch Devices



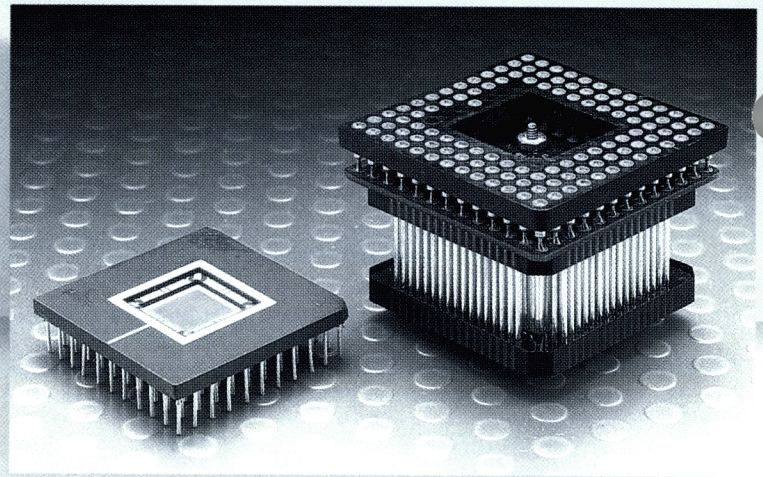
SMT Pin Adapters

Designed to allow testing of board functions prior to permanent installation of the actual PQFP device, Pomona's SMT Pin Adapters are ideal for pre-installation testing. Using this adapter eliminates soldering and desoldering devices, along with risk of damage to device or board. It can also be used with an emulator or with low cost Pin Grid Array (PGA) ICs.

In addition to six configurations for JEDEC SMT devices, a complete selection of generic device styles are available. An upper PGA socket connects to spring loaded test probes. Locator posts on the base of the adapter orient the adapter on the board, where a screw holds the adapter firmly in place.

Ideal for designers and systems test requirements, fine pitch footprints are converted to PGA footprints without overlapping.

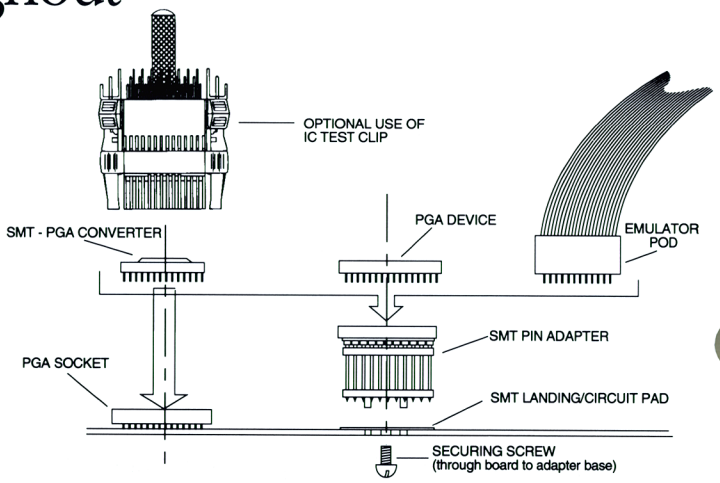
These spring-loaded adapters also work with Pomona's SMT-PGA Converters (right) to offer the user 24 SMT lead and PGA pin patterns to match most popular EIAJ and JEDEC devices. Chip-specific configurations are also available.

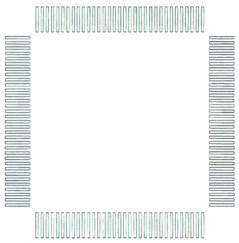


Ideal for device evaluation throughout the design stage.

As faster processing speeds, clock rates, and increasing I/O connections are challenging both design and instrumentation, the combined use of these versatile SMT-PGA converters and adapters offer a fast, lower cost method to evaluate a variety of devices in order to select the right chip for optimum system or board performance.

The diagram to the right illustrates the multi-faceted uses of either of these innovative products. The result can mean faster product-to-market and lower costs.



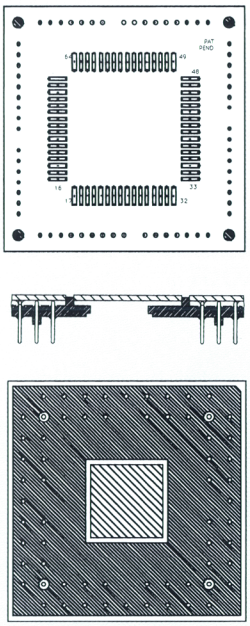


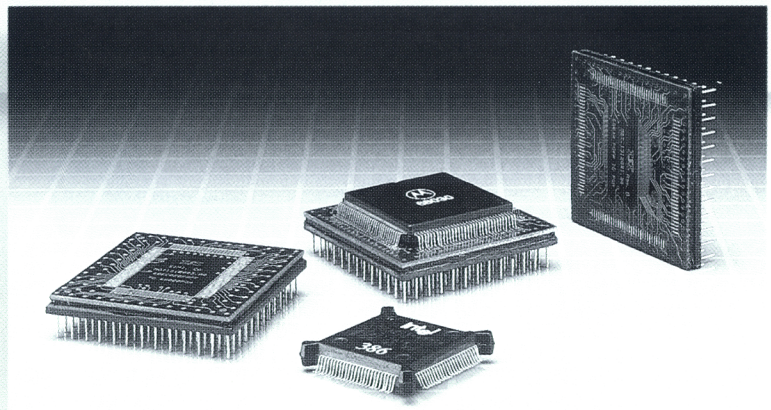
SMT-PGA Converters

SMT-PGA Converters allow the designer and on-line test user an economical means of using lower cost 25 mil SMT devices instead of costly ceramic PGAs for on-board testing of generic and device-specific ICs. These converters enable use of the latest fine-pitch device on thru-hole board designs. Converters are pin-to-pin compatible with most popular SMT device footprints.

Using a new, patented process to create the multilayered converter board, pins are not relied on to concurrently serve as electrical and mechanical conduits. The routing pattern produces a more compact board with a footprint no larger than the PGA device itself. Potential damage to the more expensive ceramic PGA device is eliminated, and when used with Pomona's QFP test clips or adapters, chips can be accessed while the converter is in-place in a board socket or emulator.

When used with Pomona's SMT Pin Adapters (left), the converter provides a virtual "device-on-board" effect. A versatile "interchangeable-device" platform is created.





Specifying a SMT Adapter or SMT-PGA Converter

Based on the general pin count and lead pattern, refer to the upper table to the right for Pomona's generic SMT-PGA Converters. For chip-specific converters, see the middle table. Spring loaded SMT Adapters are available in chip-specific and generic styles. For most versatile uses, select a SMT Adapter and several SMT-PGA Converters. All products are typically available from stock.

SMT/PGA Generic Converter

MODEL	DESCRIPTION
5838	64 Lead (16x16) .80mm to 64 Pin (11x11) PGA
5839	64 Lead (13x19) 1.0mm to 64 Pin (11x11) PGA
5840	80 Lead (20x20) .65mm to 80 Pin (11x11) PGA
5841	80 Lead (16x24) .80mm to 80 Pin (13x13) PGA
5842	100 Lead (20x30) .65mm to 100 Pin (13x13) PGA
5843	120 Lead (30x30) .80mm to 120 Pin (15x15) PGA
5844	128 Lead (32x32) .80mm to 128 Pin (15x15) PGA
5845	144 Lead (36x36) .65mm to 144 Pin (15x15) PGA
5846	160 Lead (40x40) .65mm to 160 Pin (15x15) PGA
5847	184 Lead (46x46) .65mm to 184 Pin (15x15) PGA
5848	216 Lead (54x54) .50mm to 216 Pin (17x17) PGA
5849	256 Lead (64x64) .50mm to 256 Pin (17x17) PGA
5850	68 Lead (17x17) 0.025in to 68 Pin (11x11) PGA
5851	84 Lead (21x21) 0.025in to 84 Pin (11x11) PGA
5852	100 Lead (25x25) 0.025in to 100 Pin (13x13) PGA
5853	132 Lead (33x33) 0.025in to 132 Pin (13x13) PGA
5854	148 Lead (37x37) 0.025in to 148 Pin (15x15) PGA
5855	164 Lead (41x41) 0.025in to 164 Pin (15x15) PGA
5856	196 Lead (49x49) 0.025in to 196 Pin (17x17) PGA

SMT/PGA Converter

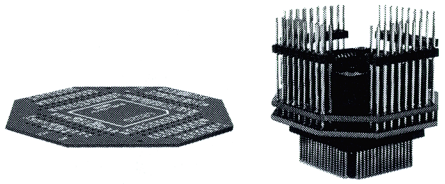
MODEL	DESCRIPTION
5834	Motorola 68020, 132 Lead (33x33) 0.025in QFP to 114 Pin (13x13) PGA
5835	Motorola 68EC020, 100 Lead (20x30) 0.65mm QFP to 100 Pin (13x13) PGA
5836	Motorola 68030, 132 Lead (33x33) 0.025in QFP to 128 Pin (13x13) PGA
5869	Motorola 68340, 144 Lead (33x33) 0.65mm QFP to 145 Pin (15x15) PGA
5917	Motorola 68302, 132 Lead (33x33) 0.025in QFP to 128 Pin (13x13) PGA
5954	80386SX, 100 Lead (25x25) 0.025in to 100 Pin (13x13) PGA
5837	80386DX, 132 Lead (33x33) 0.025in QFP to 132 Pin (14x14) PGA
5870	80486SX, 196 Lead (44x44) 0.025in QFP to 230 Pin (17x17) PGA
5896	80486DX, 196 Lead (44x44) 0.025in QFP to 230 Pin (17x17) PGA

Spring Loaded Adapter

MODEL	DESCRIPTION
5857	Motorola 68020 132 Lead (33x33) 0.025in QFP to 114 Pin (13x13) PGA
5858	Motorola 68EC020 100 Lead (20x30) 0.65mm QFP to 100 Pin (13x13) PGA
5859	Motorola 68030 132 Lead (33x33) 0.025in QFP to 128 Pin (13x13) PGA
5860	80386DX 132 Lead (33x33) 0.025in QFP to 114 Pin (13x13) PGA
5861	80386SX 100 Lead (25x25) 0.025in to 100 Pin (13x13) PGA
5862	Generic 132 Lead (33x33) 0.025in to 132 Pin (13x13) PGA
5959	Generic 100 Lead (25x25) 0.65mm QFP to 100 Pin (13x13) PGA
5960	Generic 160 Lead (40x40) 0.65mm QFP to 160 Pin (15x15) PGA

PLCC PIN BREAKOUT

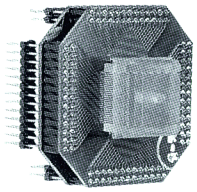
Use these test adapters to test socket mounted PLCC's. The PLCC test adapter is placed between the socket and the PLCC. 0.64 (.025) square pins allow easy access testing for all legs of the PLCC. An overlay template provides easy pin identification. Other sizes are available as custom products.



MODEL	No. of Pins
5450	20
5451	28
5878	32
5452	44
5453	52
5454	68
5455	84

PQFP (Plastic Quad Flat Pack) PIN BREAKOUT

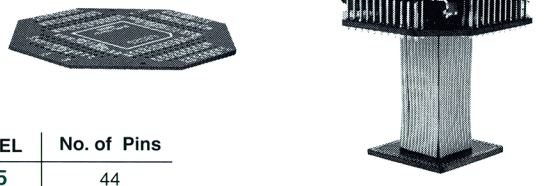
Use these test adapters to test socket mounted PQFP's. The PQFP test adapter is placed between the socket and the PQFP. 0.64 (.025) square pins allow easy access testing for all legs of the PQFP. An overlay template provides easy pin identification. Other sizes are available as custom products.
For 3M/Textool or Amp socket types.



MODEL	No. of Pins	Socket
5656	100	Amp
5657	100	3M
5658	132	Amp
5659	132	3M

LCC PIN BREAKOUT

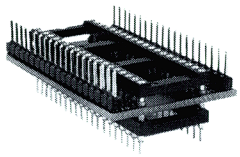
Test socket mounted LCC's by placing the adapter between the socket and the LCC. The 0.64 (.025) square pins on 2.54 (.100) centers serve as test points for each leg of the LCC. Other sizes are available as custom products.



MODEL	No. of Pins
5445	44
5447	68
5448	84

DIP SOCKET PIN BREAKOUT

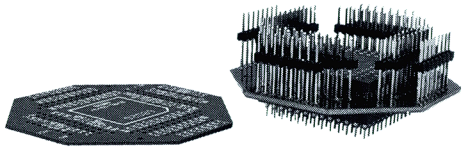
These test adapters provide a fast and efficient way to troubleshoot circuits that use socket mounted DIP's. Simply place the adapter between the socket and the DIP. 0.64 (.025) square pins on 2.54 (.100) centers provide access to DIP legs.
Other sizes are available as custom products.



MODEL	No. of Pins
5442	40
5443	48
5444	64

PIN GRID ARRAY PIN BREAKOUT

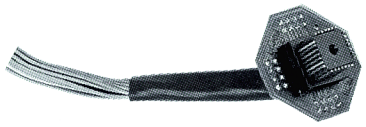
Test socket mounted PGA's with these adapters. The adapter is placed between the IC and the socket. The 0.64 (.025) square pins, spaced in a matrix of 2.54 (.100) make each leg of the PGA accessible.
Other sizes are available as custom products.



MODEL	Foot Print	No. of Pins
5461	10 x 10	68
5458	11 x 11	68
5468	13 x 13	120
5508	13 x 13	128
5486	14 x 14	132

PLCC SOCKET INTERFACE

These PLCC cabled socket interfaces provide direct access to PC boards. Four 28 AWG ribbon cables, 18 inches long, allow you to create your own end connection for automated or user specified testing.



MODEL	No. of Pins
5660	20
5661	28
5956	32
5662	44
5663	52
5664	68
5665	84

PQFP (Plastic Quad Flat Pack) SOCKET INTERFACE

These PQFP cabled socket interfaces provide direct access to PC boards. Four 28 AWG ribbon cables, 18 inches long, allow you to create your own end connection for automated or user specified testing.
For 3M/Textool or Amp socket types.

MODEL	No. of Pins	Socket
5668	100	Amp
5666	100	3M
5669	132	Amp
5667	132	3M

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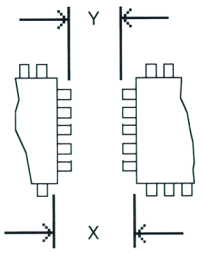
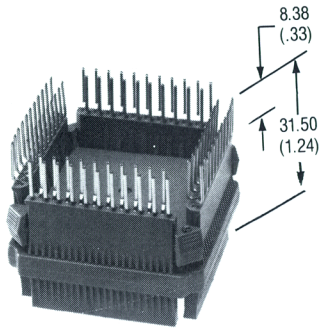
PLCC QUAD CLIP® TEST ADAPTER

Pat. No. 4541676

These test adapters are designed for testing surface mounted Plastic Leaded Chip Carriers (PCC or PLCC) with "J" Leads (JEDEC MO-047 & MO-052). A "Snap-ring" design allows the Quad Clip to fit directly onto IC, providing hands-free testing.
UPPER: .64 (.025) Square Pins, staggered on 2.54 (.100) centers. Phosphor bronze, gold plated.
INSULATION: Glass filled nylon, gray.
LOWER: Contacts. Beryllium copper, gold plated.
RATING: 500 VRMS, 1 Amp, +102°C. (+216°F.) Max.

.05 inch pitch





MODEL	No. of Pins	Pins p/Side	Pitch	LIST
5279	20	5 X 5		19.50
5280	28	7 X 7		31.90
5733	32	7 X 9		33.50
5281	44	11 X 11	12.7 (.50)	37.50
5312	52	13 X 13		43.50
5401	68	17 X 17		49.50
5402	84	21 X 21		59.50

	X Min.	Y Min.
Single Chip Testing	3.05 (.120)	2.79 (.110)
Adjacent Testing	8.26 (.325)	7.24 (.285)

PLCC QUAD CLIP® KIT

Model 5515A PLCC Quad Clip Kit contains 7 sizes of Clips: 20 Pin, 28 Pin, 32 Pin, 44 Pin, 52 Pin, 68 Pin and 84 Pin.

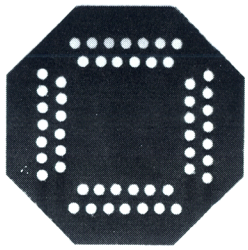
SOIC CLIP® KIT

Model 5514 SOIC Clip Kit contains 6 sizes of Clips: 8 Pin, 14 Pin, 16 Pin, 20 Pin, 24 Pin and 28 Pin.

MODEL	LIST
5515A	245.00
5514	65.50

PLCC QUAD CLIP® TEMPLATE

These simple-to-install templates are used with Quad Clip Test Adapters to identify pin locations. They are printed on each side to correspond to both conventional pin numbering systems.



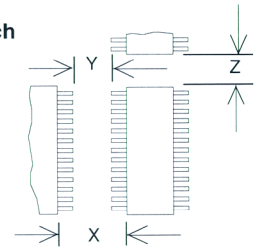
MODEL	No. of Pins
5549	20
5550	28
5747	32
5551	44
5552	52
5553	68
5554	84

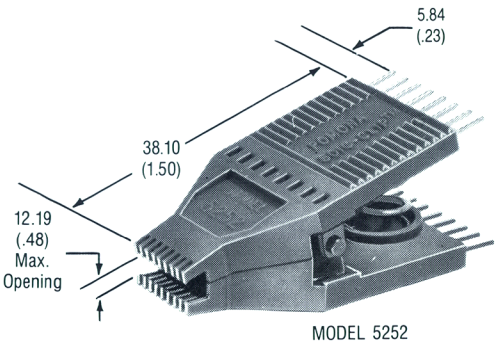
LIST 4.50

SOIC CLIP® TEST CLIP

These test clips are designed especially for testing Small Outline Integrated Circuits (SOIC and SOJ). The SOIC Clip test clip assures a positive connection and provides hands-free testing.
FEATURES
- 0.64 (.025) x 0.71(.028) square access pins on upper end permit either individual pin testing or the use of 2.54 (.100) spaced connectors.
- Molded barrier between each contact allows connections to be made on live boards without accidental shorting of adjacent contacts.
- Can be used with Jumper Cables (page 23).

.05 inch pitch





MODEL 5252 SHOWN

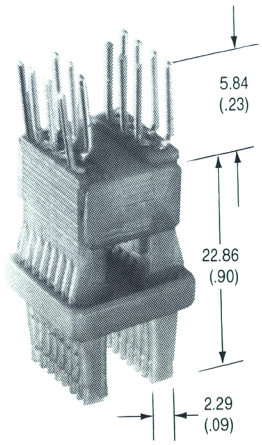
MODEL	No. of Pins	LIST
5250	8	8.00
5251	14	8.75
5252	16	9.50
5253	20	10.95
5254	24	15.95
5437	28	19.50

	X Min.	Y Min.
Single Chip Testing	4.06 (.160)	1.52 (.060)
Narrow Body (Adjacent)	15.24 (.600)	12.70 (.500)
Wide Body (Adjacent)	8.51 (.335)	5.97 (.235)

Z = .025 X No. of Contacts

SNAP RING SOIC CLIP® TEST CLIP

This clip utilizes the "snap-ring" design as used in our Quad Clip® test clips for a more secure fit. Smaller clip allows testing of devices on high density boards.



MODEL	LIST
5413	9.25

	X Min.	Y Min.	Z Min.
Single Chip Testing	4.06 (.160)	1.52 (.060)	4.57 (.180)
Adjacent Testing	9.14 (.360)	6.60 (.260)	4.57 (.180)

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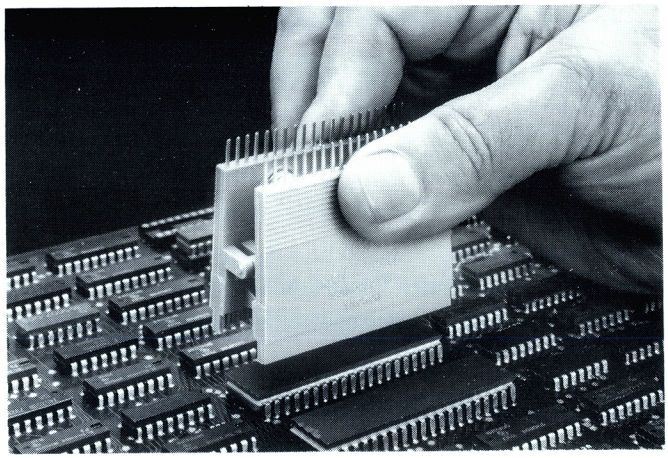
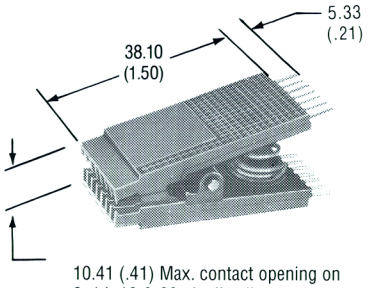
DIP CLIPS

Pomona Electronics' Dip Clips are designed especially for testing dual-in-line IC packages on high-density PC boards. The Dip Clip has many built-in features that assure a positive electrical connection and at the same time provide hands-free testing. The high density Dip Clips are used for ultra-dense packaged chips located adjacent to each other on 2.54 (.100) spacing.
MATERIAL: Contact, tarnish resistant nickel silver or gold plated beryllium copper. Stainless steel hinge pin and spring.
INSULATION: Glass filled nylon, blue.
RATING: 500 VRMS, 1 Amp, +102°C. (+216°F.) Max.

FEATURES

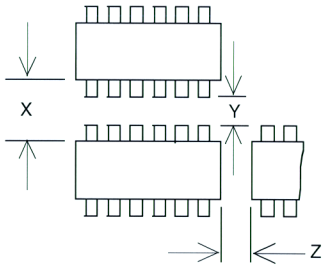
- Contacts 1.02 (.040) wide on lower end are serrated for good electrical connection.
- 0.64 (.025) x 0.71(.028) square serrated test points on upper end will accept wire wraps or mini test clips.
- Molded barrier between each contact allows connections to be made on live boards without accidental shorting of adjacent contacts.
- Can be used as an insertion and removal tool for DIPs.
- Accepts IC Jumper Cables (page 23).





STANDARD

10.41 (.41) Max. contact opening on
8, 14, 16 & 20 pin dip clips
19.56 (.77) Max. contact opening on
24 & 40 pin dip clips



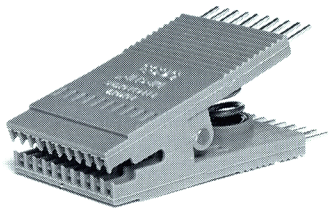
No. of Pins	Type		Contact Material	LIST
	Standard	High Density		
8	5108	5208	Gold Plated Beryllium Copper	7.45
14	5014	5114	Spring Tempered Nickel Silver	7.15
	5214	5314	Gold Plated Beryllium Copper	9.15
16	3916A	4236A	Spring Tempered Nickel Silver	6.40
	5116	5216	Gold Plated Beryllium Copper	9.10
20	5120	5220	Gold Plated Beryllium Copper	10.85
24	4124A	4324A	Spring Tempered Nickel Silver	14.10
	5124	5224	Gold Plated Beryllium Copper	18.25
40	4140A	4340A	Spring Tempered Nickel Silver	20.60
	5140	5240	Gold Plated Beryllium Copper	25.10

See pg. 20 for DIP Socket Test Adapters.

	X Min.	Y Min.	Z Min.
Single Chip Testing Standard	3.30 (.130)	1.91 (.075)	1.02 (.040)
Single Chip Testing High Density	2.67 (.105)	1.27 (.050)	1.02 (.040)
Adjacent	7.62 (.300)	5.72 (.225)	2.03 (.080)

OXIDE PENETRATING DIP CLIPS

For use with DIP IC's exposed to contaminating environments. Same features as Pomona's Standard line of Dip Clip Test Adapters, but with the additional benefit of a roughened stainless steel surface coating on the contacts.
MATERIAL: Contact, tarnish resistant nickel or gold plated beryllium copper. Stainless steel hinge pin and spring.
INSULATION: Glass filled nylon, gray.
RATING: 500 VRMS, 1 Amp, 102°C. (+216°F.) Max.



MODEL	No. of Pins	LIST
5649	8	11.20
5650	14	10.80
5692	16	9.70
5693	20	16.30
5694	24	21.20
5695	40	31.00

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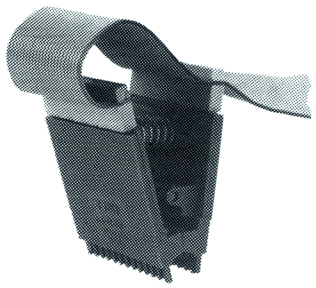
DIP JUMPER CABLE (CONNECTORS, ONE END ONLY)

1ST END: Two IC Sockets, phosphor bronze, gold plated. Insulation, Noryl, black.
WIRE: 26 AWG, 7 x 34, multi-conductor flat ribbon cable, 24 inches long.
2ND END: Cut off square.
RATING: +93°C. (+200°F.) Max. Used on Dip Clip and SOIC Clip Test Clips.

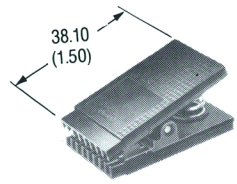


(Dip Clip not included.)

MODEL	Conductors	Used On	LIST
5578	8	5108, 5208, 5250, 5649	8.00
5579	14	5014, 5114, 5214, 5251, 5314, 5650	9.00
5580	16	3916A, 4236A, 4566, 5116, 5216, 5252, 5692	10.00
5581	20	5120, 5220, 5253, 5693	12.50
5582	24	4124A, 4324A, 5124, 5224, 5254, 5694	15.00
5583	28	5437	17.50
5584	40	4140A, 4340A, 5140, 5240, 5695	21.00

STATIC CONTROL DIP REMOVERS

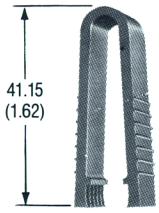
These Dip Removers are built of special plastic that not only has the strength to pull the most stubborn DIP, but actually prevents electrostatic buildup. The surface resistivity controls surface charges and protects even the most sensitive of electronic circuits. This excellent design also minimizes accidental bending of contacts.
MATERIAL: Antistatic Noryl, black.
TEMPERATURE: Heat distortion temperature @265 psi greater than +93°C. (+200°F.)



MODEL	Size	Removes Dips	Accepts Dips	LIST
5016	16	8-20 Pins	To 8.89 (.35)	5.50
5024	24	22-36 Pins	To 16.51 (.65)	6.05
5040	40	40-60 Pins	To 16.51 (.65)	7.50

ANTISTATIC DIP REMOVER

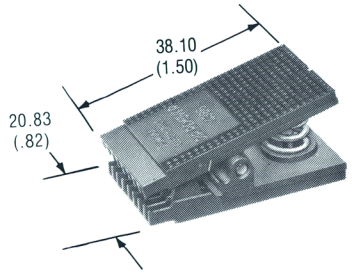
The DIP remover is an excellent tool for the removal of dual in-line IC chips. With this tool, accidental bending of the contacts is at a minimum.
MATERIAL: Antistatic Noryl, black.
RATING: Heat distortion temperature @ 265 psi, +93°C. (+200°F.) Max. For IC DIP's 7.62 (.300) wide.



MODEL **4904** — **LIST 1.70**

14/16 PIN DUAL IN-LINE DIP REMOVER

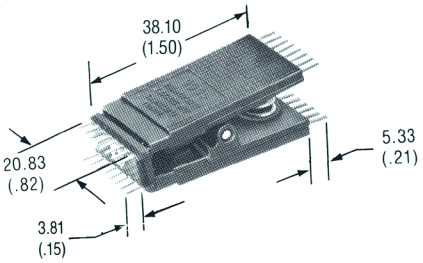
The DIP remover is an excellent tool for the removal of 14/16 pin dual in-line IC chips. With this tool, accidental bending of the contacts is at a minimum.
INSULATION: Glass filled nylon, red.
RATING: +102°C. (+216°F.) Max.



MODEL **4386** — **LIST 5.50**

14/16 PIN DUAL IN-LINE TEST CLIP WITH ATTACHED HEADER

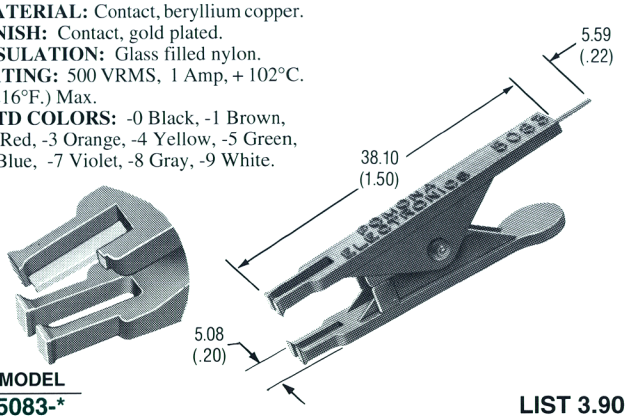
The DIP Clip with attached header is an excellent tool for plugging into 14/16 pin IC Sockets to test circuits. You can either solder wires directly to the top pins of the Dip Clip or more conveniently, attach Pomona's IC Jumper Cable, Model 5580.
UPPER: Contacts, solid nickel silver.
INSULATION: Glass filled nylon, red.
LOWER: Pins, gold plated brass.
RATING: 500 VRMS, 1 Amp, +102°C. (+216°F.) Max.



MODEL **4566** — **LIST 17.60**

DIP GRIP® ACCESSORY

Pomona Electronics DIP Grip accessory is designed especially for testing single contacts on Dual-In-Line Package (DIP) Integrated Circuits on 2.54 (.100) spacing. The DIP Grip accessory assures positive electrical contact on one leg of the Dip across its 7.62 (.300) width and provides hands-free testing. Contact 1.02 (.040) wide on lower end is serrated for good electrical connecton. 0.64 (.025) x 0.71(.028) square serrated test points on upper end will accept square pin receptacle patch cords.
MATERIAL: Contact, beryllium copper.
FINISH: Contact, gold plated.
INSULATION: Glass filled nylon.
RATING: 500 VRMS, 1 Amp, + 102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



MODEL **5083-*** — **LIST 3.90**

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TEST CLIPS WITH .025 SQUARE PINS

Model 5926

Model 5925

Model 5927

Model 5929

Model 5928

HOOK TYPE TEST CLIPS

Description	MODEL	LIST per KIT
Minigrabber w/ .025 Sq Pin, Model 4587. Kit contains 10 clips, one of each color.	**5926**	34.00
Micrograbber w/.025 Sq Pin, Model 4521. Kit contains 10 clips, one of each color.	**5925**	32.00

PINCER TYPE TEST CLIPS

Description	MODEL	LIST per KIT
SMD Grabber w/ .025 Sq Pin, Model 5360. Kit contains 10 clips, one of each color.	**5927**	32.00
Minipincer w/.025 Sq Pin, Model 5430. Kit contains 10 clips, one of each color.	**5928**	36.00
Rotating Micrograbber, Model 5790. -0 Kit contains10 black clips, -2 Kit contains 10 red clips.	**5929-***	44.00
Rotating Micrograbber, Model 5790. Kit contains 5 black & 5 red clips.	**5930**	44.00

TEST LEAD KITS

Description	MODEL	LIST per Kit
Minigrabber to Minigrabber Lead Kit - Contains 10 leads, Model 3781, 24" long, one of each color.	**5523**	27.45
Micrograbber to MicrograbberLead Kit - Contains 10 leads, Model 4613, 24" long, one of each color.	**5525**	44.55
SMD Grabber to SMD Grabber Lead Kit - Contains 10 leads, Model 5301, 24" long, one of each color.	**5521**	47.70

Model 5523

Model 5525

Model 5521

TEST LEADS

1st End	Wire	2nd End	MODEL	LIST
Micrograbber	20 AWG	none	**5043-36-***	3.60
SMD Grabber	22 AWG	none	**5303-36-***	3.65

Model 5043

Model 5303

.025 SQ PIN RECEPTACLE PATCH CORDS

Description	MODEL	LIST per Kit
SMD Grabber to .025 Receptacle Lead Kit - Contains 10 leads, Model 5412, 12" long, one of each color.	**5924**	36.00
.025 Receptacle to .025 Receptacle Lead Kit - Contains 10 leads, Model 4741, 6" long, one of each color.	**5948**	19.00

Model 5924

Model 5948

*-0 Black, -2 Red

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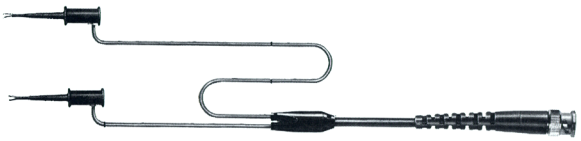
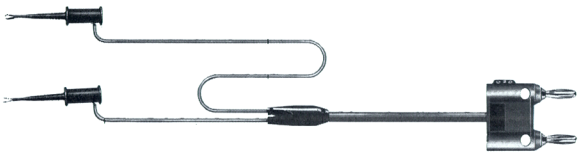
CABLE ASSEMBLY BREAKOUTS

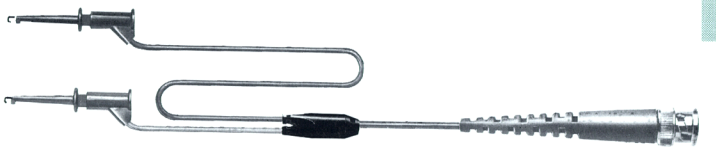


Model 5304

Model 5432



Model 5411



Model 4777

1st End	Wire	2nd End	MODEL	LIST
SMD Grabber Breakout	RG 174 /U	BNC Male	**5304-K-24** **5304-K-36**	18.35 18.35
	RG 58C/U	Double Banana Plug	**5411-C-36** **5411-C-60**	17.45 18.65
Minipincer Breakout	RG 58C/U	Double Banana Plug	**5422-C-36** **5422-C-60**	13.95 15.15
Micrograbber Breakout	RG 58C/U	BNC Male	**4777-C-36** **4777-C-60**	14.55 15.75
Micrograbber Breakout	RG 174 /U	BNC Male	**4777-K-36** **4777-K-60**	20.15 21.35

SPRING LOADED NEEDLE POINT PROBE TIP

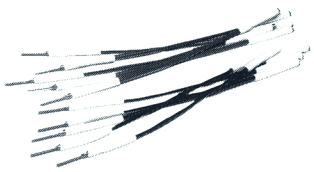
Tip is connected to a .025" Dia. Pin which accepts Sq. Pin Receptacle leads.
***STD. COLORS:** -0 Black, -2 Red.

MODEL
5789-*

LIST 9.65

FLYING LEADS

Description	1st End	2nd End	MODEL	LIST per Kit
Quad and SOIC Clip Leads, 5 per Color	.025 Socket	.031 Pin	**5746-***	18.00
	.025 Socket	.025 Pin	**5923-***	18.00
JEDEC Quad Clip Leads, 25 per Color	.012 X .022 Socket	.031 Pin	**5745-***	55.00
	.012 X .022 Socket	.025 Pin	**5922-***	55.00
100 Pin JEDEC QFP Clip (Model 5713) with 100 Leads (Model 5745) in 10 colors			**5764**	
132 Pin JEDEC QFP Clip (Model 5711) with 150 Leads (Model 5745) in 10 colors			**5765**	
196 Pin JEDEC QFP Clip (Model 5715) with 200 Leads (Model 5745) in 10 colors			**5829**	



*-0 thru -9

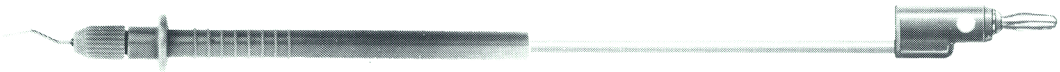
SMD TEST TWEEZER™ LEADS TO SLEEVED BANANA PLUGS

MODEL
5678-K-48

LIST 13.00

SMD MICROTIP TEST PROBE

***STD.COLORS**: -0 Black, -2 Red



MODEL
5144-48-*

LIST 8.20

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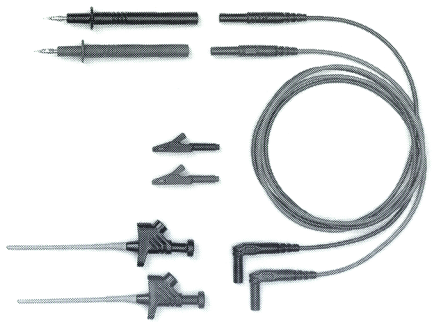
GENERAL USE TEST LEAD KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Right Angle to Straight Plug Test Leads (Set 5907), Flexible Maxigrabber® Test Clips (Set 5910), and Medium Alligator Clips (Set 5916), one black andone red. Kit supplied in a nylon pouch.

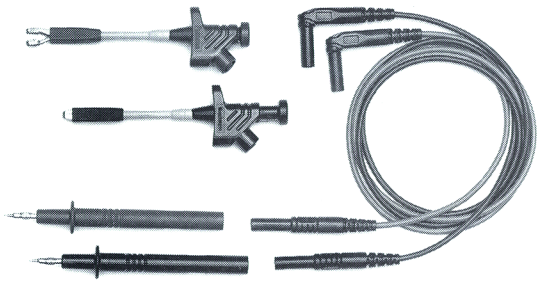


MODEL	LIST
5899	36.00

INDUSTRIAL TEST LEAD KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Right Angle to Straight Plug Test Leads, (Set 5907) and Maxigrabber® Grip Clips (Set 5912), one black and one red. Kit supplied in a nylon pouch.

Replacement for Fluke TL 20

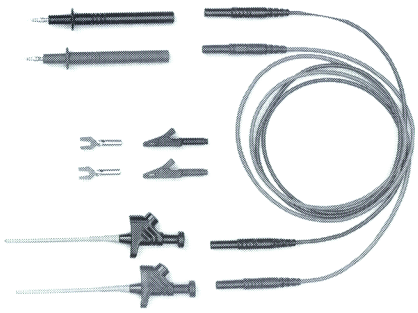


MODEL	LIST
5900	37.00

DELUXE BENCH METER DMM KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Straight to Straight Plug Test Leads (Set 5908), Flexible Maxigrabber® Test Clips (Set 5910), and Medium Alligator Clips (Kit 5916), one black and one red. It also contains 2 Spade Lugs (Model 5546). Kit supplied in a nylon pouch.

Replacement for Fluke Y 8134

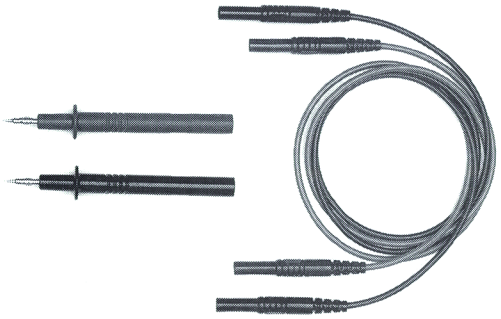


MODEL	LIST
5901	29.00

INDUSTRIAL BENCH METER DMM KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Straight to Straight Plug Test Leads (Set 5908), one black and one red.

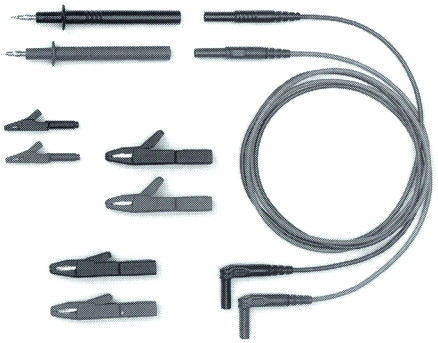
Replacement for Fluke Y 8132



MODEL	LIST
5902	13.00

ELECTRICAL KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Right Angle to Straight Plug Test Leads (Set 5907), Extra Large Jaw Alligator Clips (Set 5914), Heavy Duty Large Alligator Clips (Set 5915) and Medium Alligator Clips (Set 5916), one black and one red.Kit supplied in a nylon pouch.



MODEL	LIST
5905	42.00

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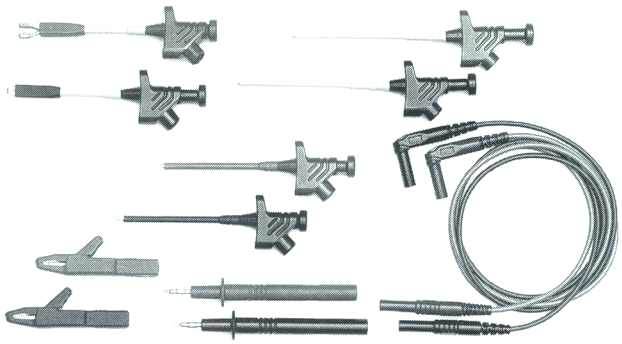
DELUXE ELECTRICAL KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Right Angle to Straight Plug Test Leads (Set 5907), Flexible Maxigrabber® Test Clips (Set 5910), Rigid Maxigrabber® Test Clips (Set 5911), Maxigrabber® Grip Clips (Set 5912), and Extra Large Jaw Alligator Clips (Set 5914), one black and one red. Kit supplied in a nylon pouch.

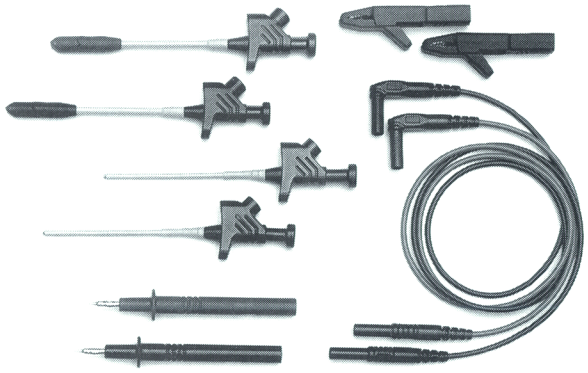


MODEL
5904

LIST 80.00

AUTOMOTIVE DMM KIT

Kit contains 2 pcs. each: Probe Handles (Set 5906), Right Angle to Straight Plug Test Leads (Set 5907), Flexible Maxigrabber® Test Clips (Set 5910), Insulation Piercing Maxigrabber® Test Clips (Set 5913), and Extra Large Jaw Alligator Clips (Set 5914), one black and one red.Kit supplied in a nylon pouch.



MODEL
5903

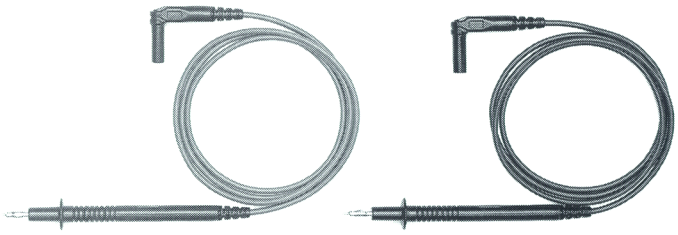
LIST 69.00

PROBE LEAD SET WITH BANANA PLUG TIP

Test Probe with brass caged banana plug tip and 48" ong PVC wire. Set has one black and one red probe.
RATING: 1000 VRMS, 10 Amps.

Fits Beckman, Fluke & most B & K Meters

Replacement for Fluke TL 70A



MODEL
5897

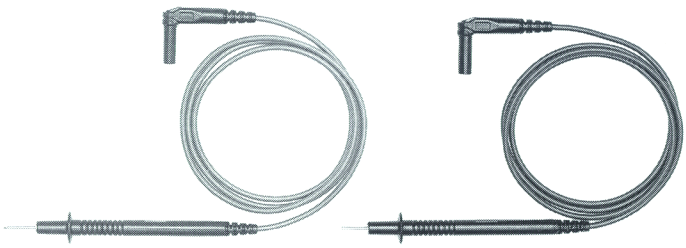
LIST 9.00

EXTRA DURABLE PROBE LEAD SET

Test Probe with stainless steel tip and 48" long PVC wire. Set has one black and one red probe.
RATING: 1000 VRMS, 10 Amps.

Fits Beckman, Fluke & most B & K Meters

Replacement for Fluke TL 75



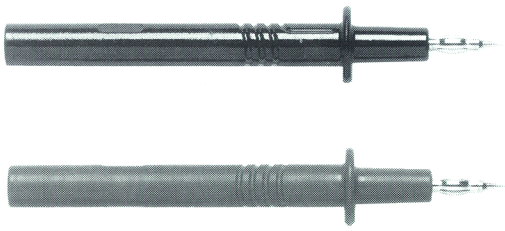
MODEL
5898

LIST 8.00

TEST PROBE HANDLE SET WITH BANANA PLUG TIP

Test Probe handle with brass caged banana plug tip and sheathed 4mm Banana Jack in handle. Set has one black and one red probe.
RATING: 1000 VRMS, 10 Amps.

Replacement for Fluke TP 22



MODEL
5906

LIST 7.00

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FLEXIBLE TEST LEAD SET
RIGHT ANGLE TO STRAIGHT BANANA PLUG

Right Angle Sheathed Banana Plug to Straight Sheathed Banana Plug on 62" long silicone wire. Set contains one black and one red.
RATING: 1000 VRMS, 10 Amps

Replacement for Fluke TL 24

MODEL	
5907	LIST 12.00

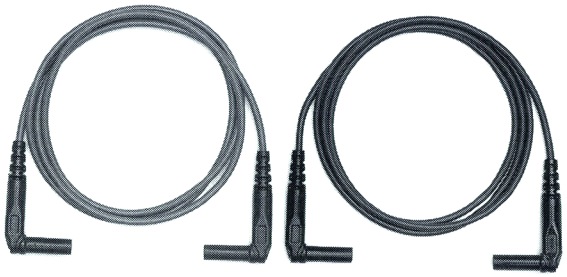
FLEXIBLE TEST LEAD SET
STRAIGHT TO STRAIGHT BANANA PLUG

Straight Sheathed Banana Plug, each end on 62" long silicone wire. Set contains one black and one red.
RATING: 1000 VRMS, 10 Amps.

MODEL	
5908	LIST 12.00

FLEXIBLE TEST LEAD SET
RIGHT ANGLE TO RIGHT ANGLE BANANA PLUG

Right Angle Sheathed Banana Plug , each end on 62" long silicone wire. Set contains one black and one red.
RATING: 1000 VRMS, 10 Amps.

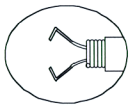


Replacement for Fluke TL 22

MODEL	
5909	LIST 12.00

FLEXIBLE MAXIGRABBER® SET

Maxigrabber has pincer type tip. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909). Set contains one black and one red clip.
RATING: 1000 VRMS, 10 Amps.

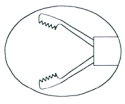


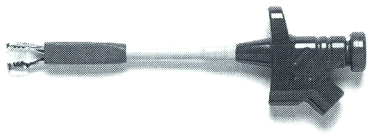
Replacement for Fluke AC 83

MODEL	
5910	LIST 17.00

MAXIGRABBER® GRIP CLIP SET

Maxigrabber has grip teeth. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909). Set contains one black and one red clip.
RATING: 1000 VRMS, 10 Amps.





Replacement for Fluke AC 20

MODEL	
5912	LIST 18.00

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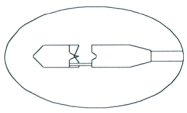
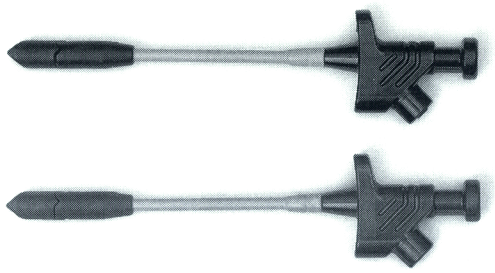
INSULATION PIERCING MAXIGRABBER® SET

Maxigrabber pierces cable insulation up to 3.5 (.14) without damaging wire. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909) Set contains one black and one red clip.
RATING: 1000 VRMS.



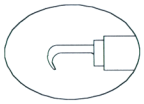
Replacement for Fluke AC 89



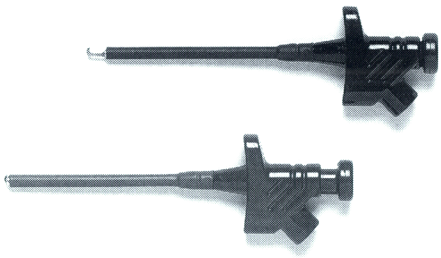
MODEL	
5913	LIST 25.00

RIGID MAXIGRABBER® SET

Maxigrabber has hook tip. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909). Set contains one black and one red clip.
RATING: 1000 VRMS, 10 Amps.



Replacement for Fluke AC 80

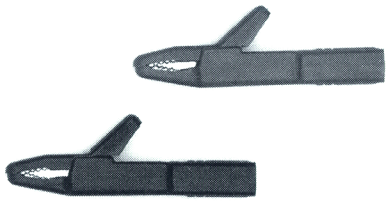


MODEL	
5911	LIST 13.00

EXTRA LARGE JAW ALLIGATOR SET

Fully insulated clip. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909). Set contains one black and one red clip.

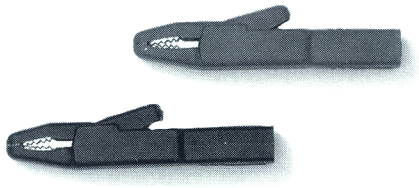
Replacement for Fluke AC 85



MODEL	
5914	LIST 7.50

HEAVY DUTY LARGE ALLIGATOR SET

Fully insulated clip. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909) Set contains one black and one red clip **(Model 5785)**.

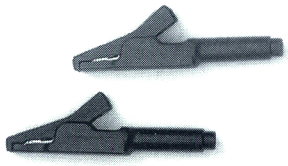


MODEL	
5915	LIST 7.75

MEDIUM ALLIGATOR SET

Fully insulated clip. Sheathed 4mm Receptacle accepts shrouded banana plugs and flexible test leads (Models 5907, 5908 and 5909). Set contains one black and one red clip **(Model 5787)**.

Replacement for Fluke AC 75



MODEL	
5916	LIST 6.50

KELVIN CLIP

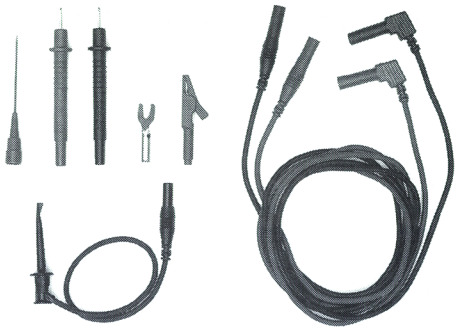
High quality Kelvin Clip Cable assembly for accurate four wire measurements. The 0.65m (24.0) cable features two gold plated Kelvin clips, for low contact resistance, to four color-coded gold plated banana plugs. A minigator to banana plug lead is included for grounding or guarding.
RATING: 50V, 5 Amps Max.

Replacement for HP 11059A

MODEL	
5940	LIST 120.00

Fluke is a registered trademark of John Fluke Mfg. Co., Inc.
HP is a registered trademark of Hewlett Packard.

MULTI-USE KIT FOR ELECTRONICS



Kit contains 2 each: Probe Handles (**Model 5548**), Pop Jack Silicone Leads (**Model 5547-48**), one black and one red. It also includes 1 each: Medium Alligator Clip (**Model 5787-2**), Spade Lug (**Model 5546**), Minigrabber Lead (**Model 5545-10-0**) and Extended Slide-on Tip (**Model 5682**). Kit supplied in a nylon pouch.

Fits Beckman, Fluke, & most B & K Meters.

Model 5543A . . . . . LIST 34.90 Kit

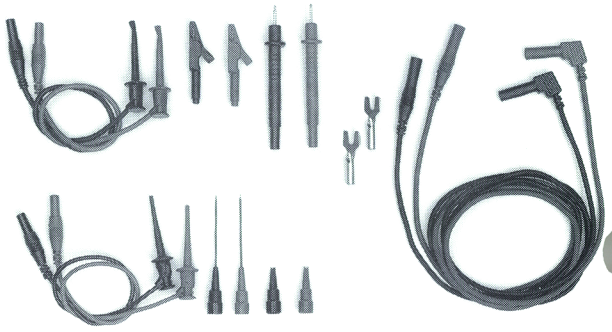
HEAVY DUTY KIT FOR ELECTRICAL WORK

Kit contains 2 each: Probe Handles (**Model 5548**), Medium Alligator Clips (**Model 5787**), Heavy Duty Large Alligator Clips (**Model 5785**), Slide-on Extended Tips (**Model 5682**), Pop Jack Leads, (**Model 5547-48**), & Couplers (**Model 5635**), one black and one red. Kit also includes 2 Spade Lugs (**Model 5546**) and a nylon pouch.

Fits Beckman, Fluke, & most B & K Meters.

Model 5673A . . . . . LIST 39.90 Kit

DELUXE KIT FOR ELECTRONICS

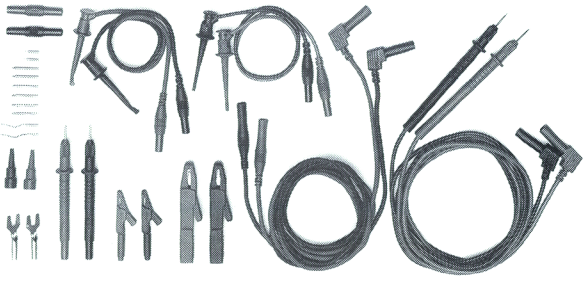


Kit contains 2 each: Probe Handles (**Model 5548**), Medium Alligator Clips (**Model 5787**), Minigrabber Leads (**Model 5545-10**), Minipincer Leads (**Model 5686-10**), Slide-on IC Tips (**Model 5246**), Slide-on Extended Tips (**Model 5682**) and Pop Jack Leads, (**Model 5547-48**), one black and one red. Kit also includes 2 Spade Lugs (**Model 5546**) and a nylon pouch.

Fits Beckman, Fluke, & most B & K Meters.

Model 5674A . . . . . LIST 59.90 Kit

MAXI-KIT

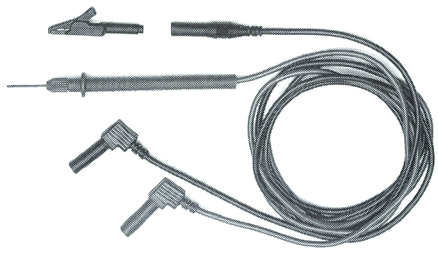


Kit contains 2 each: Extendable Tip Probe Leads (**Set 5953**), Replaceable Tip Probe Handles (**Model 5689**), Pop Jack Leads (**Model 5547-48**), Couplers (**Model 5635**), Medium Alligator Clips (**Model 5787**), Heavy Duty Large Alligator Clips (**Model 5785**), Minigrabber Leads (**Model 5545-10**), Minipincer Leads (**Model 5686-10**), and Slide-on IC Tips (**Model 5246**),one black and one red. Kit also includes 2 Spade Lugs (**Model 5546**),Dog Leg Micro Tips (**Model 5133**), NeedleTips (**Model 4174**), Shouldered Micro Tips and 4 Each: Standard Brass Tips. Kit is supplied in a nylon pouch.

Fits Beckman, Fluke, & most B & K Meters.

Model 5677A . . . . . LIST 79.90 Kit

EXTENDABLE TIP TEST LEAD KIT



Kit contains 1 each: Insulated Stainless Steel Extendable Test Probe Lead (**Set 5953**), Medium Alligator Clip (**Model 5787-0**) and Pop Jack Silicone Lead (**Model 5547-48-0**). Kit supplied in a reusable plastic case.

Fits Beckman, Fluke, & most B & K Meters.

Model 5671A . . . . . LIST 21.40 Kit

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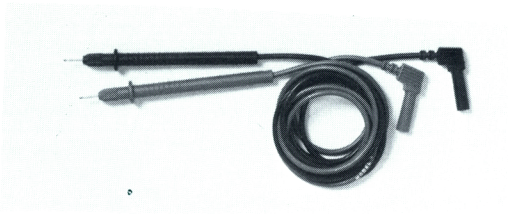
STANDARD REPLACEMENT TEST LEADS



Kit contains 2 Test Probe Leads, one black and one red. Kit supplied in a reusable plastic case.

Model 5516 (Most Amprobe) ..... LIST 11.20 Kit
Model 5517 (Simpson) ..... LIST 11.20 Kit
Model 5519 (Beckman, Fluke, Most B & K) ..... LIST 9.00 Kit

REPLACEABLE TIP PROBE TO STACKING BANANA PLUG SET

Contains 2 Test Probe Leads, one black and one red. Pair is supplied in a reusable plastic pouch.

Model 5309 ..... LIST 9.50 Pair

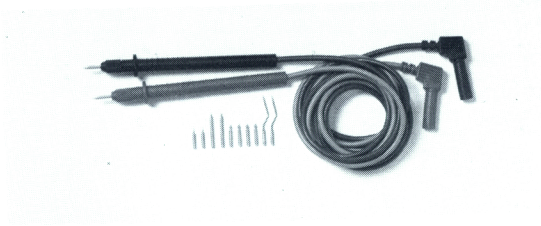
FIELD REPAIRABLE TEST LEAD KIT

Kit contains 2 pcs. each 18 AWG Silicone Test Probe Leads (**Model 5680-48**), one black and one red. Tips can be removed from probe handle. Wire is soldered to tips for repairablity. Kit supplied in a reusable plastic case.

Fits Beckman, Fluke, & most B & K Meters.

Model 5670 ..... LIST 14.20 Kit

REPLACEABLE TIP PROBE KIT

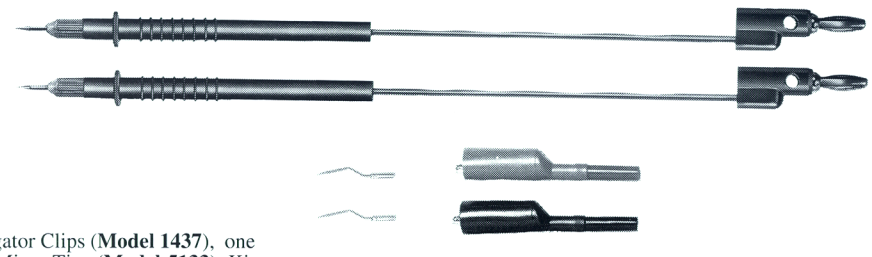


Kit contains 2 pcs. each: Replaceable Tip Test Probe Leads on Silicone Wire (**Model 5687-48**), one black and one red. Kit also contains 2 each: Dog Leg Micro Tips (**Model 5133**), 2.03 (.080) Needle Tips (**Model 4174**), Shouldered Micro Tips (**Model 4988**) and 4 ea. Standard Brass Tips (**Model 5688**). Kit supplied in a reusable plastic case.

Fits Beckman, Fluke, & most B & K Meters.

Model 5676 ..... LIST 22.90 Kit

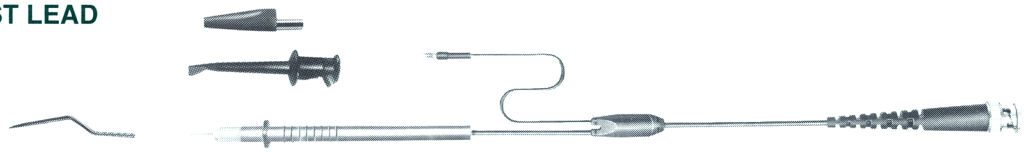
REPLACEABLE TIP LEAD TO STACKING BANANA PLUG KIT



Kit contains 2 pcs. each: Test Probe Leads, and Alligator Clips (**Model 1437**), one black and one red. It also includes 2 pcs: Dog Leg Micro Tips (**Model 5133**). Kit supplied in a reusable plastic pouch.

Model 5325-48 ..... LIST 17.00 Kit

SHIELDED TEST LEAD



A Shielded test probe with the shield extending to within 38.10 (1.50) of the probe tip.

Kit contains 1 each: Test Probe Assembly , Minigrabber w/6-32 Thread (**Model 4011**), Minigator w/6-32 Thread , and Dog Leg Micro Tip (**Model 5133**).

Model 5292-48 ..... LIST 26.00 Kit

Test Probe: Removable stainless steel tip. Insulation, nylon.
6-32 Stud on 20 AWG Wire: Brass, nickel plated.
Cable: Shielded coax., RG 174/U, 2.54 (.100) O.D. Molded Breakout: PVC, black.
BNC Male: Brass body, tarnish plated. Center contact, brass, gold plated. Boot: PVC, black. Nominal Impedance: 50 Ohms.
Rating: Operating Voltage; 500 VRMS Max., +50°C. (+122°F.) Max.

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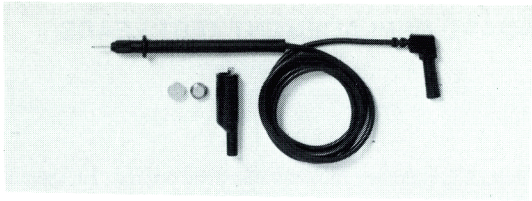
PEN METER TEST LEAD KIT

Fits Beckman, Fluke, & most B & K Meters.



Kit contains 1 each Test Probe Lead on 18 AWG PVC Wire, and Alligator Clip (**Model 1437-0**). Kit supplied with 2 Batteries (LR44) in a reusable plastic pouch.

Model 5679 ..... LIST 8.60 Kit

REPLACEABLE TIP PROBE TO BANANA PLUG SET

Set includes one black and one red test lead.

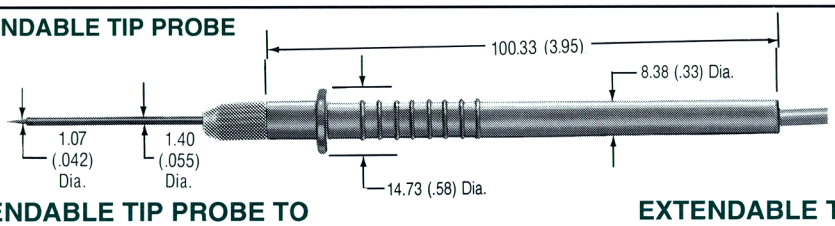
Model 5950 ..... LIST 9.50

REPLACEABLE TIP PROBE TO RIGHT ANGLE BANANA PLUG SET

Set includes one black and one red test lead.

Model 5951 ..... LIST 9.50

EXTENDABLE TIP PROBE



Now you can test those hard-to reach test points with this miniature extendable test probe. The steel tip is very sharp, allowing penetration of contaminants or conformal coatings. Tip is insulated to the point, providing protection from accidental shorting to adjacent components.

EXTENDABLE TIP PROBE TO STACKING BANANA PLUG

Set includes on black and one red test lead.

Model 5952 ..... LIST 15.00

EXTENDABLE TIP PROBE TO MULTIMETER PLUG

Set includes on black and one red test lead with sIlicone insulated wire.

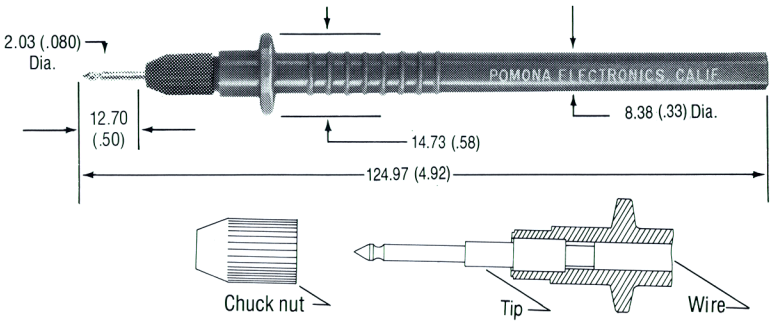
Model 5953 ..... LIST 15.00

DO-IT-YOURSELF MINIATURE TEST PROBE

Install this miniature probe on the end of any test lead having a maximum O.D. of 2.92 (.115) dia. and wire gauge of 22 to 18 AWG. Simply remove chuck and tip. Strip wire 3.18 (.125) and feed through test probe body. Solder or crimp to small end of tip. Insert tip into test probe and tighten chuck nut.

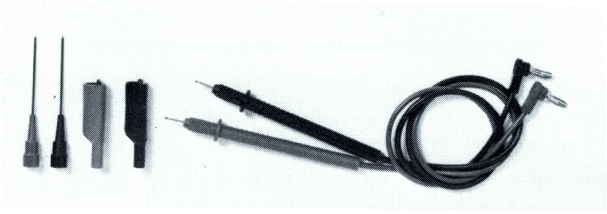
Material: Brass.
Finish: Nickel plated.
Insulation: Nylon.
Rating: 1500 V AC/DC; 10 Amps; +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

Model 5432-* ..... LIST 2.45 Ea.



LOW COST TEST LEAD KIT FOR ELECTRONICS

Fits Beckman, Fluke, & most B & K Meters.



Kit contains 2 pcs. eachTest Probe Leads on 18 AWG PVC Wire , one black and one red. Banana Plugs on meter end have no sleeve. Kit also contains 2 each: Slide-on Extended Tips (**Model 5682**) and Alligator Clips (**Model 1437**), one black and one red. Kit supplied in a reusable plastic case.

Model 5672 ..... LIST 19.90 Kit

MEDIUM-DUTY KIT FOR ELECTRICAL WORK

Fits Beckman, Fluke, & most B & K Meters.

Kit contains 2 each: Test Probe Leads on 18 AWG Wire (**Set 5519**), Alligator Clip (**Model 1437**), one black and one red. Kti also contains 2 Spade Lugs (**Model 4769**), and is supplied in a reusable plastic case.

Model 5675 ..... LIST 18.30 Kit

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TEST LEAD KIT REPLACEMENT PARTS

TEST PROBE WITH POP JACK

This Probe mates with Pomona Pop Jack accessories. Pop Jack design insures the test tips and leads remain connected during use.
Rating: 1500 V AC/DC; 10 Amps; Insulation Resistance: 5000 MegOhms.
***STD COLORS:** -0 Black, -2 Red.

Solid Tip Test Probe

Solid Tip Probe: Needle tip, brass, nickel plated. Insulation; nylon.

Model 5548-* ..... LIST 3.95 Ea.

Replaceable Tip Test Probe

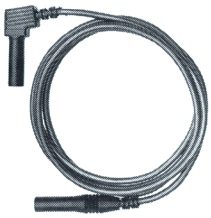
Replaceable Tip Probe: Needle tip,stainless steel. Insulation; nylon.

Model 5689-* ..... LIST 5.95 Ea.

POP JACK ACCESSORIES

Pop Jack to Multimeter Plug

Wire: Silicone insulated, 48 inches long
***STD COLORS:** -0 Black, -2 Red.



Model 5547-48-* (Beckman, Fluke, most B & K) ..... LIST 5.25 Ea.

Minigrabber® Test Clip to Pop Jack

Wire: Silicone insulated, 10 inches long.
***STD COLORS:** -0 Black, -2 Red.

Model 5545-10-* ..... LIST 4.95 Ea.

Minipincer® Test Clip to Pop Jack

Wire: SIlicone insulated, 10 inches long.
***STD COLORS:** -0 Black, -2 Red.

Model 5686-10-* ..... LIST 6.70 Ea.

Spade Lug with Jack

Model 5546 ..... LIST 9.50 Pkg.

Large Jaw Test Clip with Jack

***STD COLORS:** -0 Black,-2 Red.

Model 5785-* ..... LIST 3.45 Ea.

Pop Jack Coupler (Male to Male)

***STD COLORS:** -0 Black, -2 Red.

Model 5635-* ..... LIST 9.00 Pkg.

Alligator Clip with Jack

***STD COLORS:** -0 Black, -2 Red.

Model 5787-* ..... LIST 2.53 Ea.

SLIDE-ON TIPS

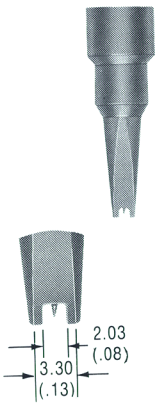
Flexible Pin Tip Probe

This flexible tip easily attaches to the end of the Pomona line of test probes, allowing access of hard-to-reach areas. Model 4906 threads onto Models 4948 & 5075 after removing chuck & tip. Model 4908 inserts directly onto 2.03 (.080) dia. tip of probe.
INSULATION: PVC.
TIP: Brass, gold plated.
RATING: 3000 WVDC; 5 Amps; +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

Model 4906-* ..... LIST 2.60 Ea.
Model 4908-* ..... LIST 2.85 Ea.

IC TEST TIP ADAPTER

Miniature IC Test Tip fits directly over the test probe tip. The small size and recessed contact allow the IC Adapter to probe one leg of a DIP without shorting an adjacent leg. Plastic projections on either side of the contact tip slice between the DIP legs to hold adapter in place and prevent slipping.
INSULATION: Nylon.
TIP: Stainless steel.
RATING: +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -5 Green.



Model 5246-* ..... LIST 2.90 Ea.

EXTENDED TIP

Extended Tip fits directly over the test probe tip, allowing testing of hard-to-reach points. Tip is insulated to the point, providing protection from accidental shorting of adjacent components.
INSULATION: Nylon.
TIP: Stainless steel, Kynar insulation.
RATING: +50°C. (+226°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

Model 5682-* ..... LIST 3.50 Ea.

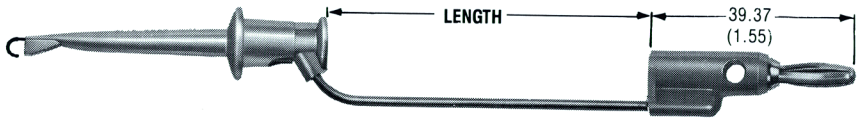
DMM POP JACK KIT REPLACEMENT PARTS

MODEL	Description	LIST
1437-*	Alligator Clip	15.00 (10 per Pkg)
4174	Probe Needle Tip	3.35 (10 per Pkg)
5133	Probe Dog Leg Tip	10.60 (10 per Pkg)
5246-*	IC Test Tip Adapter	2.90
5428-48-*	Minigrabber Lead	5.20
5545-10-*	Minigrabber to Pop Jack Lead	4.95
5546	Spade Lug	9.50 (10 per Pkg)
5547-48-*	Pop Jack to Multimeter Plug Lead	5.25

MODEL	Description	LIST
5548-*	Solder Tip Probe with Pop Jack	3.95
5635-*	Coupler (10 per Pkg.)	9.00
5682-*	Extended Tip	3.50
5686-10-*	Minipincer to Pop Jack Lead	6.70
5689-*	Repairable Tip Probe with Pop Jack	5.95
5955	Tri-Fold Pouch	7.00
6001	Bi-Fold Pouch	7.00

* Std. Colors: -0 Black , -2 Red

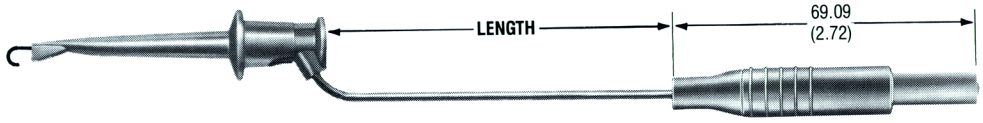
MINIGRABBER® TEST CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
3782-12-*	304.8 (12.0)	3.05
3782-24-*	609.6 (24.0)	3.05
3782-36-*	914.4 (36.0)	3.05
3782-48-*	1219.2 (48.0)	3.25
3782-60-*	1524.0 (60.0)	3.45

RATING: 5000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

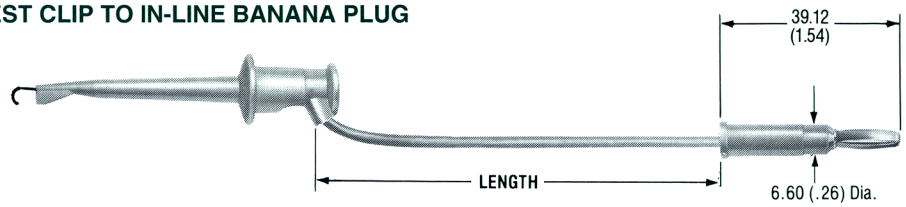
MINIGRABBER® TEST CLIP TO RETRACTABLE SHEATH BANANA PLUG



MODEL	Length	LIST
5270-12-*	304.8 (12.0)	5.70
5270-24-*	609.6 (24.0)	5.70
5270-36-*	914.4 (36.0)	5.70
5270-48-*	1219.2 (48.0)	5.90
5270-60-*	1524.0 (60.0)	6.10

RATING: 1200 V AC/DC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

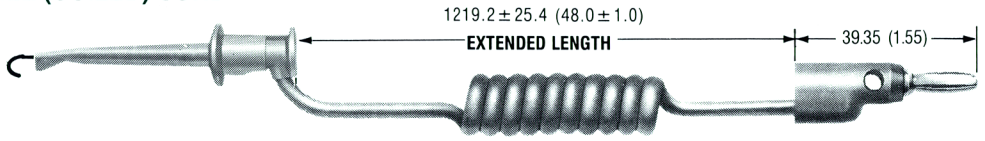
MINIGRABBER® TEST CLIP TO IN-LINE BANANA PLUG



MODEL	Length	LIST
4650-12-*	304.8 (12.0)	4.20
4650-24-*	609.6 (24.0)	4.20
4650-36-*	914.4 (36.0)	4.20
4650-48-*	1219.2 (48.0)	4.40
4650-60-*	1524.0 (60.0)	4.60

RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

MINIGRABBER® TEST CLIP TO STACKING PLUG WITH RETRACTILE (COILED) CORD



MODEL
4538-*

RATING: 3000 VDCInt.; 270 VDC, 90 VAC cont. duty, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

LIST 9.00

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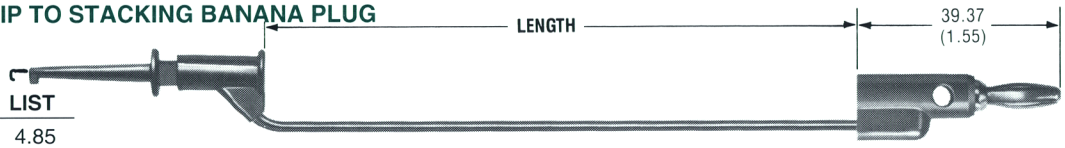
MICROGRABBER® TEST CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
5053-12-*	304.8 (12.0)	4.85
5053-24-*	609.6 (24.0)	4.85
5053-36-*	914.4 (36.0)	4.85
5053-48-*	1219.2 (48.0)	5.05
5053-60-*	1524.0 (60.0)	5.25

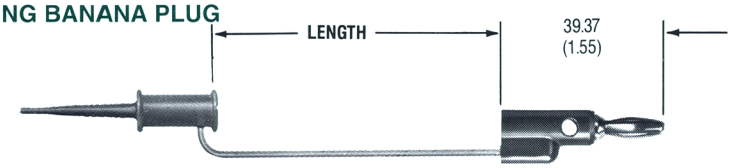
RATING: 5000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

MICROGRABBER® TEST CLIP TO RETRACTABLE SHEATH BANANA PLUG

MODEL	Length	LIST
5339-8-*	203.2 (8.0)	6.85
5339-12-*	304.8 (12.0)	6.85
5339-24-*	609.6 (24.0)	6.85
5339-36-*	914.4 (36.0)	6.85
5339-48-*	1219.2 (48.0)	7.05
5339-60-*	1524.0 (60.0)	7.25

RATING: 1000 WVDC, 3 Amps, +80°C. (+176°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

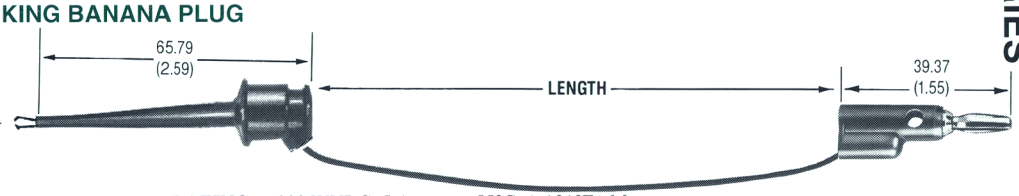
SMD GRABBER® TEST CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
5302-12-*	304.8 (12.0)	4.95
5302-24-*	609.6 (24.0)	4.95
5302-36-*	914.4 (36.0)	4.95

RATING: 1000 WVDC, 0.5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

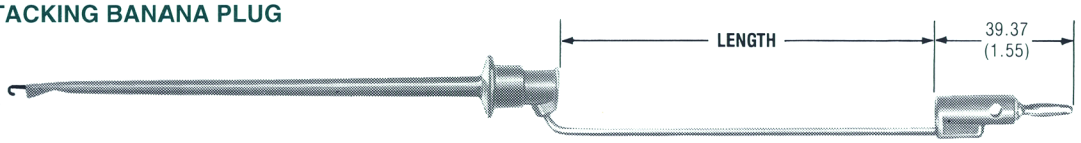
MINIPINCER® TEST CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
5421-12-*	304.8 (12.0)	3.75
5421-24-*	609.6 (24.0)	3.95
5421-36-*	914.4 (36.0)	4.15
5421-48-*	1219.2 (48.0)	4.35
5421-60-*	1524.0 (60.0)	4.55

RATING: 1000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

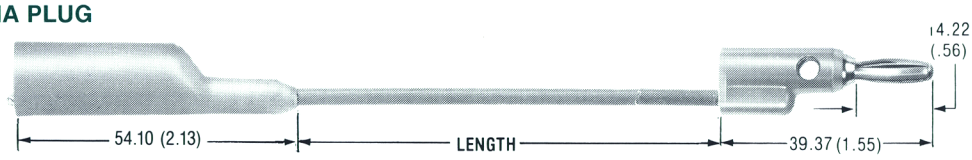
MAXIGRABBER® TEST CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
4996-12-*	304.8 (12.0)	7.75
4996-24-*	609.6 (24.0)	7.75
4996-36-*	914.4 (36.0)	7.75
4996-48-*	1219.2 (48.0)	7.95
4996-60-*	1524.0 (60.0)	8.15

RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

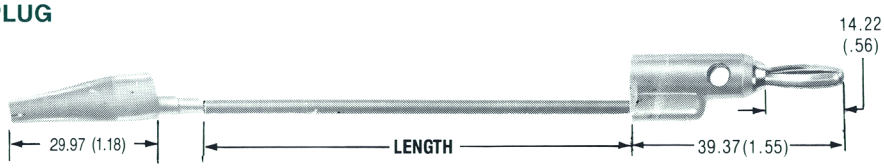
ALLIGATOR CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
1166-4-*	101.6 (4.0)	3.75
1166-8-*	203.2 (8.0)	3.75
1166-12-*	304.8 (12.0)	3.75
1166-24-*	609.6 (24.0)	3.75
1166-36-*	914.4 (36.0)	3.75
1166-48-*	1219.2 (48.0)	3.95
1166-60-*	1524.0 (60.0)	4.15

RATING: 5000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

MINIGATOR CLIP TO STACKING BANANA PLUG



MODEL	Length	LIST
3220-4-*	101.6 (4.0)	3.60
3220-8-*	203.2 (8.0)	3.60
3220-12-*	304.8 (12.0)	3.60
3220-24-*	609.6 (24.0)	3.60
3220-36-*	914.4 (36.0)	3.60
3220-48-*	1219.2 (48.0)	3.80
3220-60-*	1524.0 (60.0)	4.00

RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

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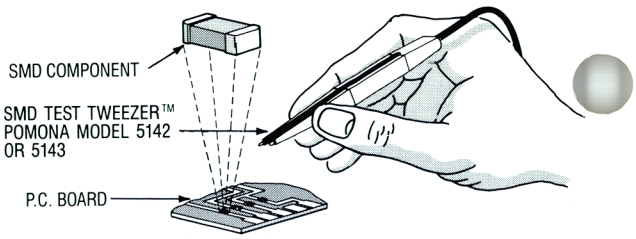
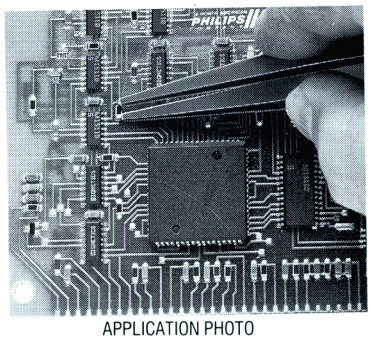
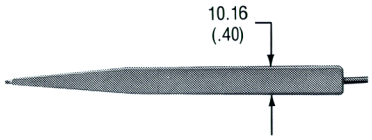
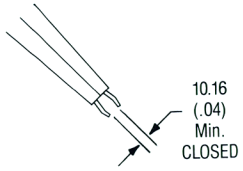
SMD TEST TWEEZER™ LEADS

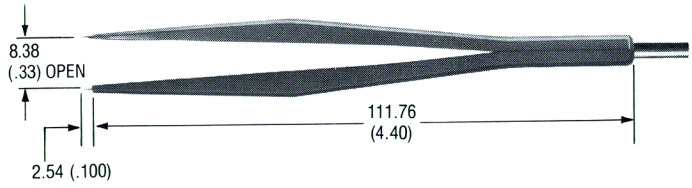
The tweezer clip is specially designed for testing Surface Mounted Devices (SMD's). The durable tips assure a positive electrical connection. The tweezer gives rapid and convenient testing.
SMD Test Tweezer: Tips, beryllium coper, gold plated. Insulation; glass filled nylon, black and red.
Cable: Shielded coaxial, RG 174/U, 2.54 (.100) O.D., 48 inches long.
Rating: 400 VRMS; 3 Amps; +50°C. (+122°F.) Max.




APPLICATION PHOTO



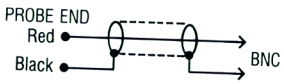




SMD TEST TWEEZER™ LEADS TO BNC MALE

BNC Male: Brass body, tarnish resistant plated. Center contact, brass, gold plated. Boot; PVC, black.

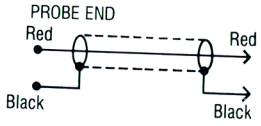
Model 5142-K-48 . . . . . LIST 17.60 Ea.



SMD TEST TWEEZER™ LEADS TO SINGLE STACKING BANANA PLUGS

Stacking Banana Plugs: Brass body, beryllium copper spring, nickel plated. Insulation; flexible PVC.

Model 5143-K-48 . . . . . LIST 17.60 Ea.

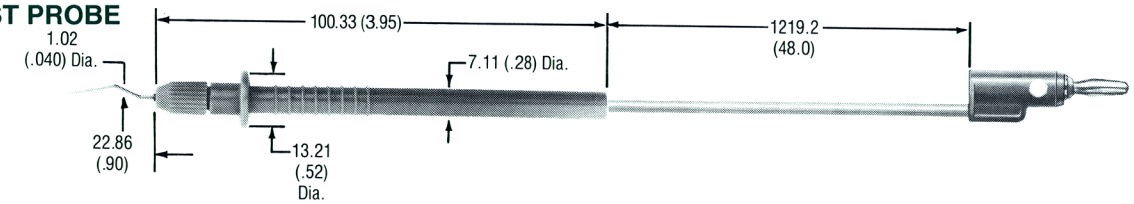


SMD TEST TWEEZER™ LEADS TO SLEEVED BANANA PLUGS

Sleeved Banana Plug: Brass body, beryllium copper spring, nickel plated. Insulation; flexible PVC.

Model 5678-K-48 . . . . . LIST 13.00 Ea.

SMD MICROTIP™ TEST PROBE



The microtip is specially designed to probe SMD contacts. It features a stainless steel needle tip that is flexible to help prevent damage to the SMD lands. The microtip is curved to aid in probing of hard to reach areas.

MODEL	Length
5144-48-*	1219.2 (48.0)

1ST END: SMD Microtip™ Test Probe. Chuck, brass, nickel plated. Replaceable microtip, stainless steel. Insulation, nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insualtion, 2.21 (.087) O.D.
2ND END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
RATING: 1200 V AC/DC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

NET 8.20

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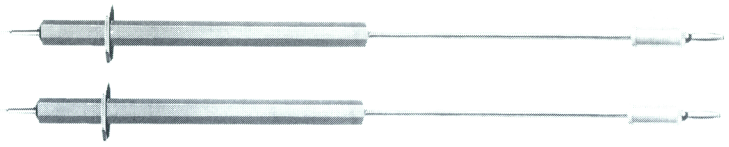
LARGE TEST PROBE KIT

Kit contains 2 pcs. Large Test Probe Leads, one black and one red.



Model 5311-48 . . . . . LIST 13.50 Kit

SHIELDED TEST PROBE TO DOUBLE BANANA PLUG

A shielded test probe with the shield extending to within 38.10 (1.50) of the probe tip end. Insulated minigator clip connected to shield lead.
Lead Wire: 20 AWG, 41 X 36, PVC insulated, 2.21 (.087) O.D. Minigator, steel, nickel plated. Insulation, vinyl, black.
Cable: Shielded coaxial, RG 58C/U, 4.95 (.195) O.D.
Double Banana Plug: Brass body, beryllium copper spring, nickel plated. Insulation; polyethylene, black.
Rating: 1400 VRMS; +50°C. (+122°C.) Max.

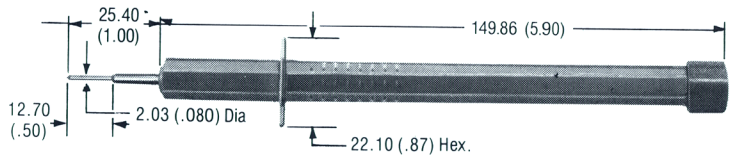
Model 4858-C-48-* . . . . . LIST 19.50 Ea.

SHIELDED TEST PROBE TO BNC MALE

Lead Wire: 20 AWG, 41 X 36 t.c., PVC insulated, 2.21 (.087) O.D., Minigator, steel, nickel plated. Insulation; vinyl, black.
Cable: Shielded coaxial, RG 58C/U, 4.95 (.195) O.D.
BNC Male: Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.
Rating: 500 VRMS Max.; +50°C. (+122°F.) Max.

Model 4857-C-48-* . . . . . .LIST 19.50 Ea.

LARGE TEST PROBE TO BANANA JACK

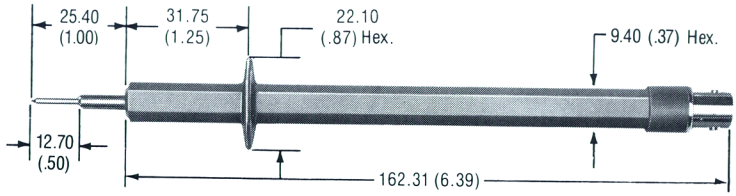


Model 5072-* . . . . . LIST 5.45 Ea.

Banana jack in handle is sheathed to help prevent accidental shorting due to partial insertion. Allows the use of standard banana plug test leads. Finger guard molded to probe helps prevent fingers from slipping onto tip.

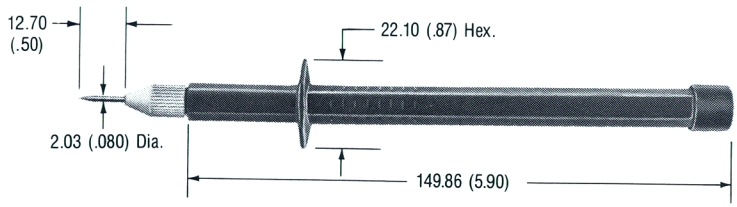
1ST END: Probe Tip. Brass, nickel plated. Insulation; nylon.
2ND END: Banana Jack. Brass, nickel plated.
RATING: 3000 VDC Max.; 10 Amps; +80°C. (+176°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

LARGE TEST PROBE TO BNC FEMALE



MODEL		
4856-*	Center contact of BNC female in handle is connected to tip. Shield extends to within 38.1 (1.50) of the probe tip end.	**Rating:** Operating Voltage: 500 VRMS Max., +80°C. (+176°F.) Max. ***STD COLORS:** -0 Black, -2 Red.	NET 10.00

LARGE TEST PROBE (NEEDLE TIP) TO BANANA PLUG



MODEL		
5075-*	Sharp replaceable needle tip allows testing of encapsulated circuits. Banana jack in handle is sheathed to help prevent accidental shorting.	**Rating:** 3000 WVDC Max.; 7 Amps; +80°C. (+176°F.) Max. ***STD COLORS:** -0 Black, -2 Red. **OPTIONAL ACCESSORIES:** Flexible Pin Tip Probe, Model 4906 & IC Test Tip Adapter, Model 5246.	NET 5.65

PROFESSIONAL CLAMP-ON MULTIMETERS

These multimeters were designed to measure current, voltage, power and frequency under normal operating conditions, without breaking the electrical circuit. This measuring technique avoids costly service interruptions and reconfigurations and does not influence the result.
A dedicated microprocessor circuit gives the user an increased number of measuring ranges and functions. The analog output allows the measured data to be further processed using an oscilloscope or recorder.

FEATURES:

- Rapid measurement without breaking the circuit
- Safety to VDE standards
- Extra measuring ranges and sophisticated measuring functions
- Auto test and recalibration
- Easy to use; ergonomic design

APPLICATIONS:

- Installation and maintenance
- Power distribution
- Main supervision
- Frequency converters
- Generators and motors
- Electroplating

AC CLAMP-ON MULTIMETER UP TO 200 AMPS

FEATURES:

- Current measurement up to 200 Amps
- Voltage measurement up to 750 Ohms
- Frequency measurement up to 1000 Hz
- Power measurement up to 20 kW/20+kVA
- Power factor measurement up to 0.3 ind./cap.
- Jaw opening up to 23 (.90)

	Current RMS	Voltage RMS	Apparent Power	Active Power	cos ø Ind or cap	Frequency U
Meas. Range	20/200 A	200/750 A	2/20 kVA	2/20 kW	1 ... 0.3	200 Hz/1 kHz
Resolution	10/100 mA	0.1/1 V	1/10 VA	1/10 W	0.01	0.1/3 Hz
Frequency	15 Hz-1 kHz	15 Hz-1 kHz	15 Hz-1 kHz	15 Hz-66 Hz	15 Hz-66 Hz	5 Hz-1 kHz
Sensitivity						
Current					4 A	
Voltage					10 V	100 V
Accuracy	1.5%	0.5%	1.5% typ	1.5% typ	2.5%	0.5%
I > 800 A						

MODEL

MX 220

LIST 495.00

AC CLAMP-ON MULTIMETER UP TO 1000 AMPS

FEATURES:

- Current measurement up to 1000 Amps
- Voltage measurement up to 750 Ohms
- Frequency measurement up to 1000 Hz
- Power measurement up to 200 kW/200+kVA
- Power factor measurement up to 0.3 ind./cap.
- Jaw opening up to 60 (2.36)

	Current RMS	Voltage RMS	Apparent Power	Active Power	cos ø Ind or cap	Frequency U
Meas. Range	20/1000 A	200/750 V	20/200 kVA	20/200 kW	1...0.3	200 Hz/1 kHz
Resolution	0.1/1A	0.1/1 V	10/100 VA	10/100 W	0.01	0.1/3 Hz
Frequency	15 Hz-1 kHz	15 Hz-1 kHz	15 Hz-1 kHz	15 Hz-66 Hz	15 Hz-66 Hz	5 Hz-1 kHz
Sensitivity						
Current					20 A	
Voltage					100 V	100 V
Accuracy	1.5%	0.5%	1.5% typ	1.5% typ	2.5%	0.5%
I > 800 A	2.5%					

MODEL

MX 1220

LIST 495.00

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UNIVERSAL CLAMP-ON MULTIMETER UP TO 200 AMPS

FEATURES:

- Current measurement up to 200 Amps
- Voltage measurement up to 750 Ohms
- Frequency measurement up to 1000 Hz
- Power measurement up to 20 kW/20+kVA
- Power factor measurement up to 0.3 ind./cap.
- Analogue output for current measurement
- Jaw opening up to 23 (.90)

	Current TRMS	Voltage TRMS	Apparent Power	Active Power	cos ø Ind or cap	Frequency U
Meas. Range	20/200 A	200/750 A	2/20 kVA	2/20 kW	1...0.3	200 Hz/1 kHz
Resolution	10/100 mA	0.1/1 V	1/10 VA	1/10 W	0.01	0.1/3 Hz
Frequency	DC 15 Hz-1 kHz	DC 15 Hz-1 kHz	DC 15 Hz-1 kHz	DC 15 Hz-66 Hz	15 Hz-66 Hz	5 Hz-1 kHz
Sensitivity						
Current					4 A	
Voltage					10 V	5 V
Accuracy	1%	0.5%	1.5% typ	0.8% typ	2.5°	0.5%
Analog Output	50/5 mV/A					

MODEL

MX 200

LIST 695.00

UNIVERSAL CLAMP-ON MULTIMETER UP TO 1000 AMPS

FEATURES:

- Current measurement up to 1000 Amps
- Voltage measurement up to 750 Ohms
- Frequency measurement up to 1000 Hz
- Power measurement up to 200 kW/200+kVA
- Power factor measurement up to 0.3 ind./cap.
- Analogue output for current measurement
- Jaw opening up to 60 (2.36)

	Current TRMS	Voltage TRMS	Apparent Power	Active Power	cos ø Ind or cap	Frequency U
Meas. Range	200/1000 A	200/750 A	20/200 kVA	20/200 kW	1...0.3	200 Hz/1 kHz
Resolution	0.1/1 A	0.1/1 V	10/100 VA	10/100 W	0.01	0.1/3 Hz
Frequency	DC 15 Hz-1 kHz	DC 15 Hz-1 kHz	DC 15 Hz-1 kHz	DC 15 Hz-66 Hz	15 Hz-66 Hz	5 Hz-1 kHz
Sensitivity						
Current					20 A	
Voltage					20 V	20 V
Accuracy	1%	0.5%	2% typ	2% typ	1.5°	0.5%
Analog Output	5/1 mV/A					

MODEL

MX 1200S

LIST 695.00

3-PHASE MEASURING ADAPTER

This Measuring Adapter fits all four Clamp-on Multimeters.
With the adapter in place, a clamp-on multimeter displays:

- Voltage, power, cos ø and phase sequence in three phase circuits without an available neutral.
- Cos ø and phase sequence.
- Warning if input conditions are out of limits.

MODEL

HX-3PL

LIST 139.00

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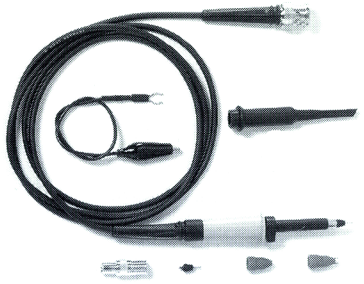
100 MHZ STANDARD MODULAR OSCILLOSCOPE PROBES

These probes are the least expensive quality probes.



FEATURES:

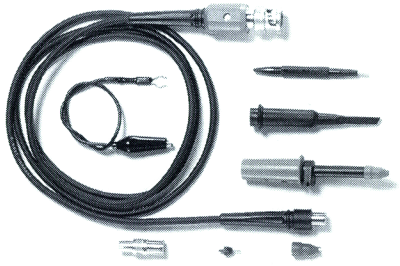
- Use with any Scope up to 100 MHz
- Modular, easy to use
- Replaceable parts available
- Flexible Cable for handling ease
- Accessories included:

5818	Sprung Hook
5820	IC Tip
5821	Insulating Tip
5822	BNC Adapter
5823	Gold Plated Tip
5824	Stainless Steel Tip
5825	Ground Lead

MODEL	Attn	Cable Length (m)	Input Impedance R (MΩ)	Input Impedance C (pF)	BW (MHz)	Risetime (nsec)	Max Input (V)	Compensation Range (pF)	LIST
5792	x1	1.2	Same as scope	45	20	15	600	—	30.00
5795	x10	1.2	10	15	100	3	600	10-60	36.50
4550A	x1 - x10 Switchable	1.2	x1 x10 Same 10 as scope	x1 x10 55 16	x1 x10 15 100	x1 x10 35 3	600	10-60	41.00

200 MHZ PROFESSIONAL MODULAR OSCILLOSCOPE PROBES

These probes provide excellent performance in a modular design.



FEATURES:

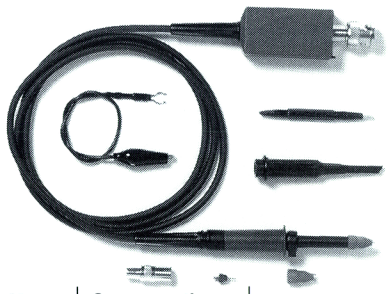
- * Use with any Scope
- Bandwidth up to 200MHz
- X1, X10, X100 and Switchable X1 / X10 Attenuation
- Economical, replaceable parts
- Stainless Steel Tip
- Accessories included:

5818	Sprung Hook	5822	BNC Adapter
5819	Trimmer Tool	5823	Gold Plated Tip
5820	IC Tip	5824	Stainless Steel Tip
5821	Insulating Tip	5825	Ground Lead

MODEL	Attn	Cable Length (m)	Input Impedance R (MΩ)	Input Impedance C (pF)	BW (MHz)	Risetime (nsec)	Max Input (V)	Compensation Range (pF)	LIST
5800	x1	1.2	Same as scope	45	30	10	600	—	39.00
5803	x10	1.2	10	15	200	1.8	600	10-60	42.00
5806	x1-x10 Switchable	1.2	x1 x10 Same 10 as scope	x1 x10 55 15.5	x1 x10 20 200	x1 x10 10 1.8	600	10-60	49.00
5827	x100	1.2	100	6.5	200	1.6	1200	15-50	75.80

300 MHZ HIGH FREQUENCY MODULAR OSCILLOSCOPE PROBES

These professional probes provide maximum safety and durability.



FEATURES:

- * Use with any Scope
- Bandwidth up to 300MHz
- 1.2 Nanosecond risetime
- Accessories included:

5818	Sprung Hook
5819	Trimmer Tool
5820	IC TIp
5821	Insulating Tip
5822	BNC Adapter
5823	Gold Plated Tip
5824	Stainless Steel Tip
5825	Ground Lead

MODEL	Attn	Cable Length (m)	Input Impedance R (MΩ)	Input Impedance C (pF)	BW Mhz	Risetime (nsec)	Max Input (V)	Compensation Range (pF)	LIST
5809	x10	1.2	10	15	300	1.2	600	10-30	79.00
5812*	x10	1.2	10	15	300	1.2	600	10-30	84.00

*With Readout Actuator

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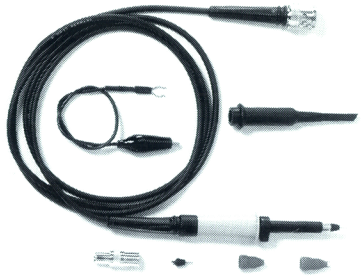
RF DETECTOR OSCILLOSCOPE PROBE

This probe works with any oscilloscope having 10MΩ input.

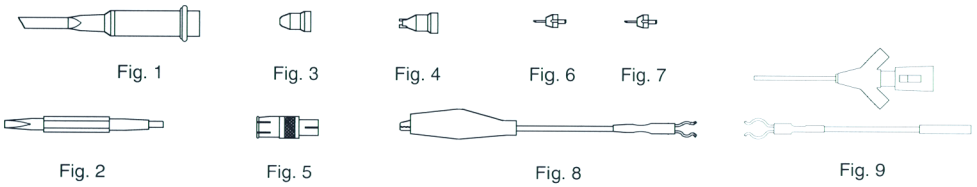
FEATURES:

- Modular Oscilloscope probe
- Bandwidth up to 800 MHz
- Accessories included:
  - 5818 Sprung Hook
  - 5820 IC TIp
  - 5821 Insulating Tip
  - 5822 BNC Adapter
  - 5823 Gold Plated Tip
  - 5824 Stainless Steel Tip
  - 5825 Ground Lead



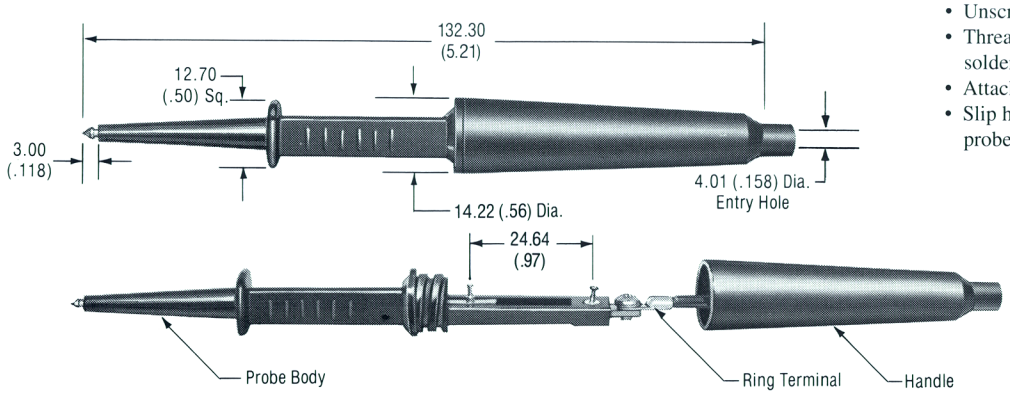
MODEL	Diode turn on Voltage (mV)	Cable Length (m)	Input C (pF)	BW	Peak AC Input (V)	DC Isolation V incl. Peak AC (V)	LIST
5815	200	1.2	5	100 kHz-800MHz ±3dB	50	200	70.50

OSCILLOSCOPE KIT REPLACEMENT PARTS



Accessories	Sprung Hook	Trimmer Tool	I.C. Tip	Insulating Tip	BNC Adapter	Gold Plated BeCu Tip	Stainless Steel Tip	Ground Lead	Ground Lead	Accessories Kit Figs. 1 - 8
	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6	Fig. 7	Fig. 8	Fig. 9	
Model No.	5818	5819	5820	5821	5822	5823	5824	5825	5949	5826
LIST	4.80	.80	1.00	.75	3.50	2.75	2.00	3.00	7.00	15.50

DO-IT-YOURSELF FUSIBLE COMPONENT MOUNTING PROBE



SIMPLIFIED COMPONENT INSTALLATION

- Unscrew handle from probe body
- Thread wire through hole in handle and crimp or solder to ring terminal
- Attach and solder component to turret terminals.
- Slip handle over component and thread handle to probe assembly.

This do-it-yourself component mounting test probe enables the user to create his own compensated probe. Discrete components, such as resistors, capacitors, filters, etc., can be soldered between the two solder turrets. The probe features a square shaped finger grip with molded finger guard and threaded handle.

MATERIAL: Test Probe tip and solder lugs, brass.
FINISH: Test probe tip, nickel plated. Solder lugs, silver plated.
INSULATION: Nylon, black.
RATING: 1200 V AC/DC Max., +80°C. (+176°F.) Max.

MODEL 4971-0 — **LIST 5.75**

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ACTIVE DIFFERENTIAL PROBE KIT

The Model 5942 Active Differential Probe Kit with the MX 9000 differential probe provides an important additional tool for any general oscilloscope user.

Using a built-in differential amplifier, the MX 9000 scales and converts differential voltage inputs to a low voltage BNC output. The differential input is useful in measuring power semiconductor circuits, as no reference to ground is required. Both the positive and negative sides of the balanced input possess high impedance to ground. The MX 9000 can accommodate a differential input to 700 V. Its sensitivity can extend down to 100 mV. With wide bandwidth and high response speed, it is adequate for accurate dv / dt measurement in the fastest switching circuits for thyristors, bipolar transistors, or power MOS FETS.

- Analyze floating signals safely
- Switchable 1:20/1:200 Attenuation
- Use with any conventional oscilloscope
- Balanced Differential inputs
- Test power switching circuits
- Battery powered or optional 6V power adapter

BANDWIDTH	DC to 15MHz
Accuracy	2%
Attenuation Ratio	1:20 and 1:200
Input (Each Side to Ground)	Balanced Differential 2M Ohm & 2.5 pF
Input Range	<70VDC (1:20 Atten.) <700VDC (1:200 Atten.)
Sensitivity	100 Millivolt (1:20 Atten.)
Absolute Maximum Input	Probe Damage Above ±1000VDC or 700 VRMS
Max. Comm. Mode Input	500 Volts RMS
Comm. Mode Rej. Ratio	70 dB @ 1 kHz
Scope Connection	Standard BNC
Maximum Output	±3.5V (No distortion)
Output Offset	<±5 Millivolt to +40°C.
Operating Temp.	-10°C. to +40°C.

Pomona's Model 5942 Active Diffential Probe Kit contains the MX-9000 differential probe with Pomona sheathed Pop Jack plugs, Test Probe Handles (Model 5548) Spade Lugs (Model 5546), fully insulated Medium Alligator Clips (Model 5787). Minigrabber to Pop-Jack leads (Model 5545-10), Accessory Pouch (Model 6001), Instruction sheet and four AA batteries.

MODEL
5942

LIST 315.00

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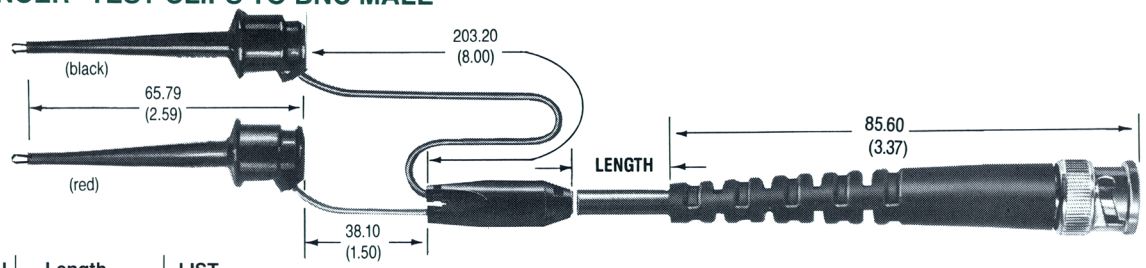
MINIPINCER® TEST CLIPS TO BNC MALE

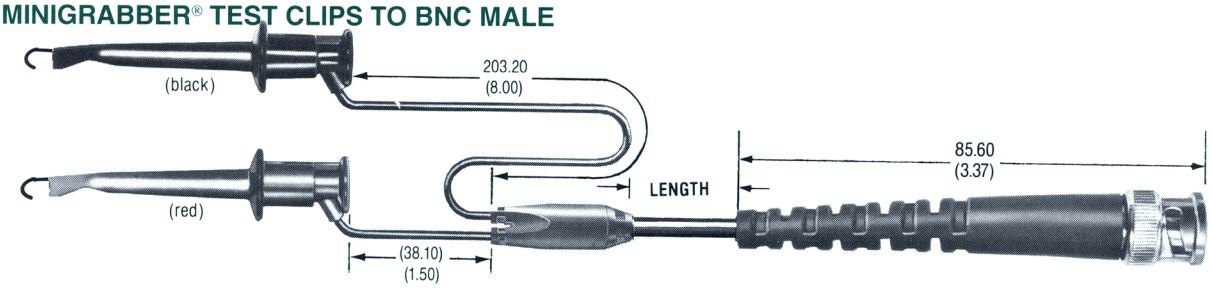


RG 58C/U	Length	LIST
5423-C-18	457.2 (18.0)	13.35
5423-C-24	609.6 (24.0)	13.65
5423-C-36	914.4 (36.0)	14.25
5423-C-48	1219.2 (48.0)	14.85
5423-C-60	1524.0 (60.0)	15.45

1ST END: Minipincer Test Clips. Selectively gold plated beryllium copper contact. Insulation, nylon. One black and one red.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. Y-Mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

MINIGRABBER® TEST CLIPS TO BNC MALE

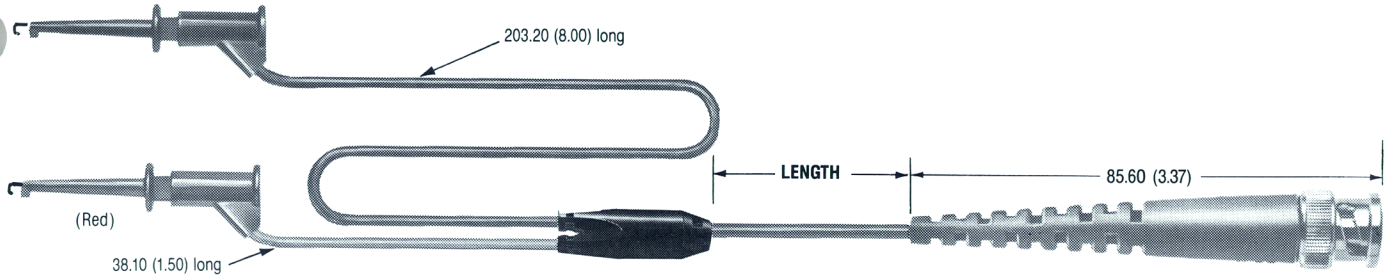


RG 58C/U	LIST	RG 174/U	LIST	Length
5187-C-24	12.50	5187-K-24	17.50	609.6 (24.0)
5187-C-36	12.50	5187-K-36	17.50	914.4 (36.0)
5187-C-48	13.10	5187-K-48	18.10	1219.2 (48.0)
5187-C-60	13.70	5187-K-60	18.70	1524.0 (60.0)

1ST END: Minigrabber Test Clips. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black and one red.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. or RG 174/U 2.54 (.100) O.D. Y-Mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

MICROGRABBER® TEST CLIPS TO BNC MALE

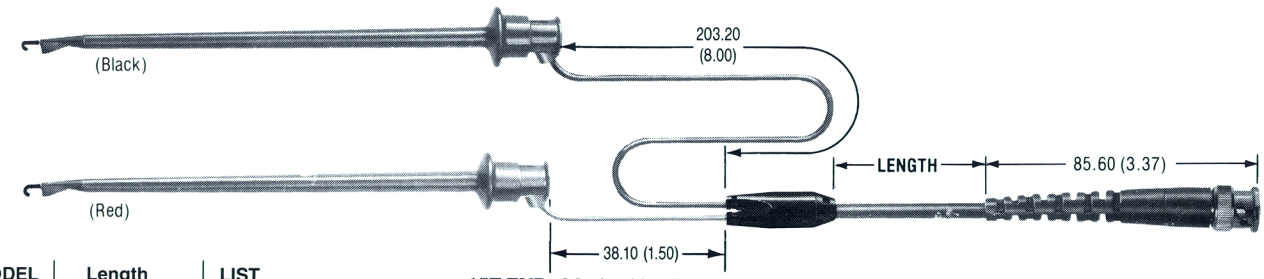


RG 58C/U	LIST	RG 174/U	LIST	Length
4777-C-24	13.95	4777-K-24	20.15	609.6 (24.0)
4777-C-36	14.55	4777-K-36	20.15	914.4 (36.0)
4777-C-48	15.15	4777-K-48	20.75	1219.2 (48.0)
4777-C-60	15.75	4777-K-60	21.35	1524.0 (60.0)

1ST END: Micrograbber Test Clips. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black and one red.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. or RG 174/U 2.54 (.100) O.D. Y-Mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

MAXIGRABBER® TEST CLIPS TO BNC MALE

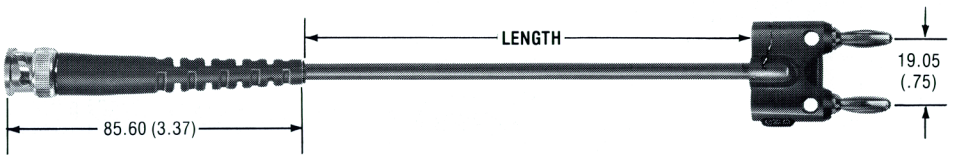


MODEL	Length	LIST
4648-C-18	457.2 (18.0)	19.55
4648-C-24	609.6 (24.0)	19.55
4648-C-36	914.4 (36.0)	19.55
4648-C-48	1219.2 (48.0)	20.15
4648-C-60	1524.0 (60.0)	20.75

1ST END: Maxigrabber Test Clips. Contact, beryllium copper, goldplated. Insulation, glass filled nylon. One black and one red.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. Y-Mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE TO DOUBLE BANANA PLUG

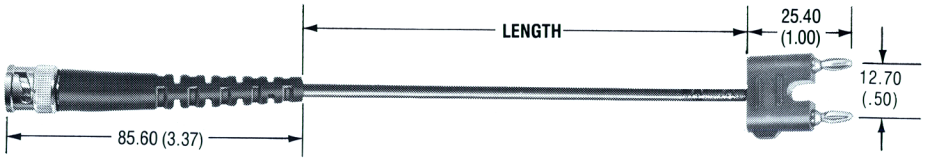


MODEL	Length	LIST
4530-C-18	457.2 (18.0)	11.00
4530-C-24	609.6 (24.0)	11.60
4530-C-36	914.4 (36.0)	12.20
4530-C-48	1219.2 (48.0)	12.80
4530-C-60	1524.0 (60.0)	13.40

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. Y-Mold insulation, PVC, black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insualtion; polyethylene, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE TO MINIATURE DOUBLE BANANA PLUG

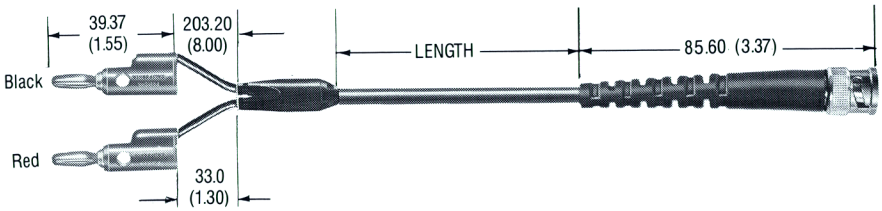


MODEL	Length	LIST
2248-K-24	609.6 (24.0)	15.95
2248-K-36	914.4 (36.0)	16.25
2248-K-48	1219.2 (48.0)	16.95
2248-K-60	1524.0 (60.0)	17.80

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
CABLE: Shielded coax., RG 174/U, 2.4 (.100) O.D. Y-Mold insulation, PVC, black.

2ND END: Miniature Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insualtion; polyethylene, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

SINGLE STACKING BANANA PLUGS TO BNC MALE

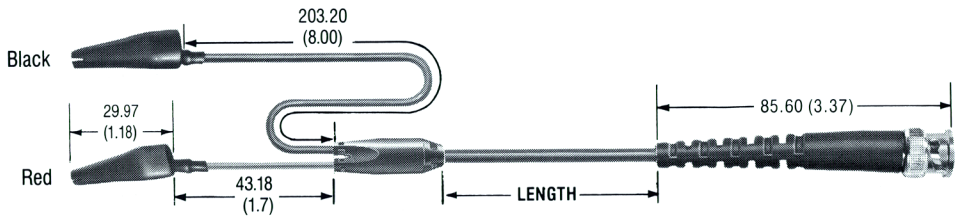


MODEL	Length	LIST
5268-C-12	304.8 (12.0)	13.50
5268-C-24	609.6 (24.0)	14.10
5268-C-36	914.4 (36.0)	14.70
5268-C-48	1219.2 (48.0)	15.30
5268-C-60	1524.0 (60.0)	15.90

1ST END: Stacking Banana Plugs. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene. One black and one red.
CABLE: Shielded coax., RG 58C/U, 4.95 (.195) O.D. Y-Mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

MINIGATOR CLIPS TO BNC MALE



MODEL	Length	LIST
4532-C-18	457.2 (18.0)	12.25
4532-C-24	609.6 (24.0)	12.55
4532-C-30	762.0 (30.0)	12.85
4532-C-36	914.4 (36.0)	13.15
4532-C-48	1219.2 (48.0)	13.75
4532-C-60	1524.0 (60.0)	14.35

1ST END: Minigator Clips. Steel, nickel plated. Insulators, vinyl. One black and one red.
CABLE: RG 58C/U 4.95 (.195) O.D. Y-Mold insulation; PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.

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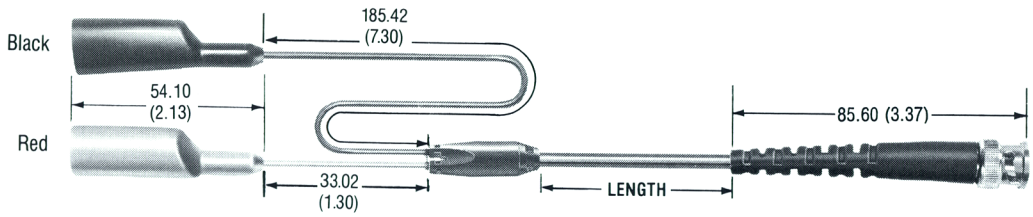
ALLIGATOR CLIPS TO BNC MALE

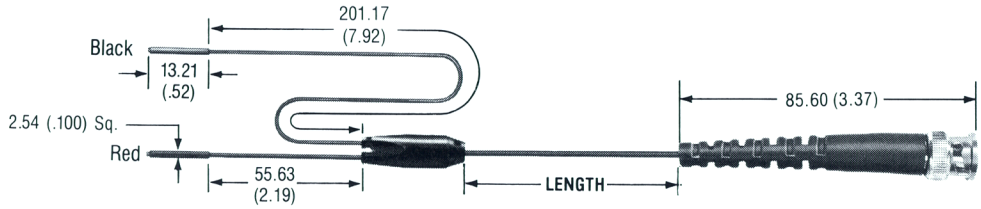


MODEL	Length	LIST
4531-C-18	457.2 (18.0)	11.80
4531-C-24	609.6 (24.0)	12.10
4531-C-30	762.0 (30.0)	12.40
4531-C-36	914.4 (36.0)	12.70
4531-C-48	1219.2 (48.0)	13.30
4531-C-60	1524.0 (60.0)	13.90

1ST END: Alligator Clips. Steel, nickel plated. Insulators, vinyl. One black and one red.
CABLE: RG 58C/U 4.95 (.195) O.D. Y-Mold insulation; PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.

0.6 (.025) SQUARE RECEPTACLES TO BNC MALE

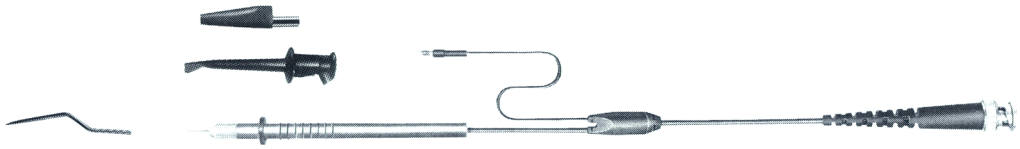


MODEL	Length	LIST
4945-K-18	457.2 (18.0)	14.75
4945-K-24	609.6 (24.0)	15.05
4945-K-36	914.4 (36.0)	15.65
4945-K-48	1219.2 (48.0)	16.25
4945-K-60	1524.0 (60.0)	16.85

1ST END: 0.6 (.025) Square Pin Receptacles. Brass, gold plated. Insulation, ABS. One black and one red.
CABLE: RG 174/U 2.54 (.100) O.D. Y-Mold insulation; PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.

SHIELDED TEST LEAD



MODEL	
5292-48	A shielded test probe with the shield extending to within 38.1 (1.50) of the probe tip. Kit contains 1 each: Test Probe Assembly, Minigrabber with 6-32 Thread and Dog Leg Micro Leg Tip (**Model 5133**).

RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.

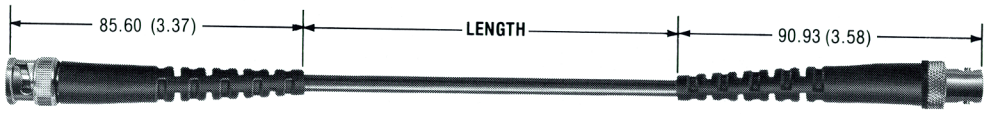
LIST 26.00

BNC MALE, EACH END

RG58C/U 50 Ohm	LIST	RG59B/U 75 Ohm	LIST	RG174/U 50 Ohm	LIST	RG62A/U 93 Ohm	LIST	Length
2249-C-12	9.90	2249-E-12	10.50	2249-K-12	14.90	2249-M-12	11.10	304.8 (12.0)
2249-C-24	10.50	2249-E-24	11.10	2249-K-24	15.50	2249-M-24	11.70	609.6 (24.0)
2249-C-36	11.00	2249-E-36	11.70	2249-K-36	16.10	2249-M-36	12.30	914.4 (36.0)
2249-C-48	11.80	2249-E-48	12.30	2249-K-48	16.70	2249-M-48	12.90	1219.2 (48.0)
2249-C-60	12.50	2249-E-60	12.90	2249-K-60	17.30	2249-M-60	13.50	1524.0 (60.0)
2249-C-72	13.10	2249-E-72	13.50					1828.8 (72.0)
2249-C-120	15.70							3048.0(120.0)
2249-C-180	19.00							4572.0(180.0)

iST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: RG58C/U 5.0 (.195) O.D.
RG59B/U 6.2 (.242) O.D.
RG62A/U 6.2 (.242) O.D.
RG174/U 2.5 (.100) O.D.
2ND END: Smae as first end.
RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE TO BNC FEMALE



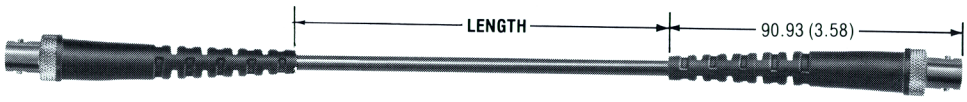
MODEL	Length	LIST
4524-C-12	304.8 (12.0)	13.25
4524-C-24	609.6 (24.0)	13.85
4524-C-36	914.4 (36.0)	14.45
4524-C-48	1219.2 (48.0)	15.05
4524-C-60	1524.0 (60.0)	15.65

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Crimp BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC FEMALE, EACH END



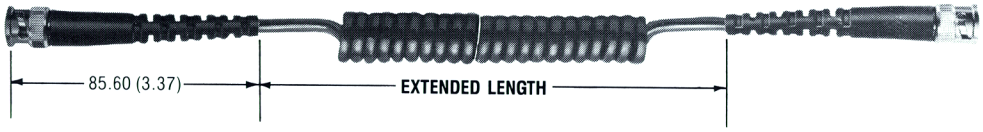
MODEL	Length	LIST
4277-C-12	304.8 (12.0)	15.25
4277-C-24	609.6 (24.0)	15.85
4277-C-36	914.4 (36.0)	16.45
4277-C-48	1219.2 (48.0)	17.05
4277-C-60	1524.0 (60.0)	17.65

1ST END: Crimp BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE ON RETRACTILE (COILED) CORD



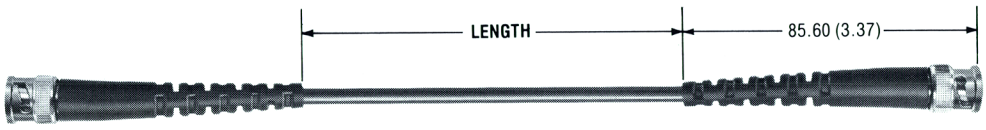
MODEL	Extended Length	LIST
4487-48	1219.2 (48.0)	34.95
4487-60	1524.0 (60.0)	35.85
4487-72	1829.0 (72.0)	36.75

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: Shielded microphone. Center conductor, 24 AWG (45 x 40), polyurethane jacket, 4.32 (.170) O.D.

2ND END: Same as first end.
RATING: 270 VDC-90 VAC cont. duty, +50°C. (+122°F.) Max.

LOW-NOISE BNC MALE, EACH END



MODEL	Length	LIST
4964-SS-24	609.6 (24.0)	13.15
4964-SS-36	914.4 (36.0)	14.65
4964-SS-48	1219.2 (48.0)	16.15
4964-SS-60	1524.0 (60.0)	17.65

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: Belden 9223 or equivalent, 50 Ohm, 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

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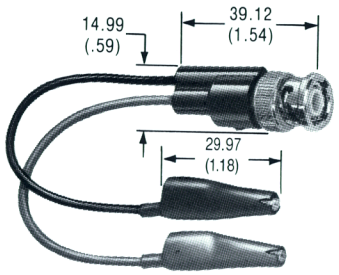
BNC MALE TO TEST CLIPS

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 18 AWG on alligator clips, 20 AWG on minigator clips. One black and one red.
2ND END: Alligator clips. Steel, nickel plated. Minigators. Steel, nickel plated. Vinyl boots, one black and one red.
RATING: 500 VRMS, +50°C. (+122°F.) Max.



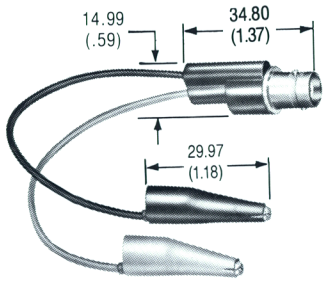
MODEL	
2885	(Alligator Clips)
2886	(Minigator Clips)

OVERALL LENGTH: 177.8 (7.0)

LIST 10.30

BNC FEMALE TO TEST CLIPS

1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 18 AWG on alligator clips, 20 AWG on minigator clips. One black and one red.
2ND END: Alligator clips. Steel, nickel plated. Minigators. Steel, nickel plated. Vinyl boots, one black and one red.
RATING: 500 VRMS, +50°C. (+122°F.) Max.



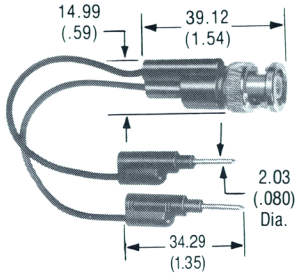
MODEL	
2630	(Alligator Clips)
2631	(Minigator Clips)

OVERALL LENGTH: 177.8 (7.0)

LIST 7.60

BNC MALE TO STACKING PIN TIP PLUGS

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D. One black and one red.
2ND END: Stacking Pin Tip Plugs. Brass, gold plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



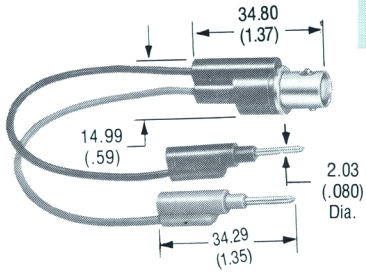
MODEL
3901

OVERALL LENGTH: 177.8 (7.0)

LIST 11.45

BNC FEMALE TO STACKING PIN TIP PLUGS

1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D. One black and one red.
2ND END: Stacking Pin Tip Plugs. Brass, gold plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



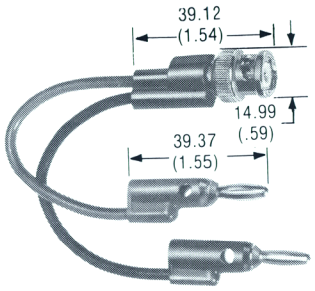
MODEL
3221

OVERALL LENGTH: 177.8 (7.0)

LIST 8.15

BNC MALE TO STACKING BANANA PLUGS

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D. One black and one red.
2ND END: Stacking Banana Plugs. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



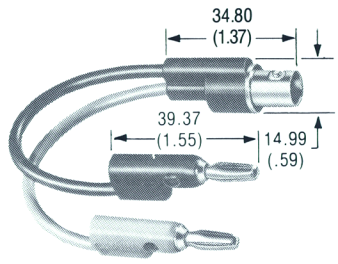
MODEL
3957

OVERALL LENGTH: 177.8 (7.0)

LIST 10.20

BNC FEMALE TO STACKING PIN TIP PLUGS

1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D. One black and one red.
2ND END: Stacking Banana Plugs. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



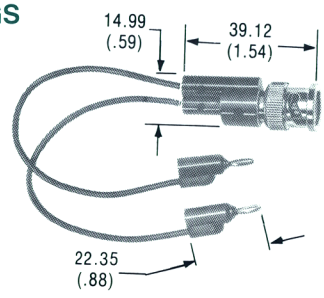
MODEL
3073

OVERALL LENGTH: 177.8 (7.0)

LIST 7.00

BNC MALE TO MINIATURE STACKING BANANA PLUGS

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D. One black and one red.
2ND END: Stacking Miniature Banana Plugs. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



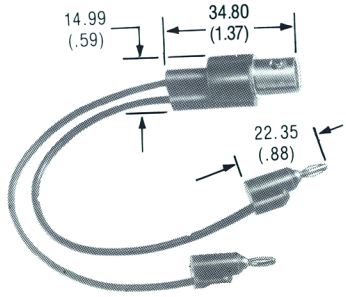
MODEL
4815

OVERALL LENGTH: 177.8 (7.0)

LIST 10.90

BNC FEMALE TO MINIATURE STACKING BANANA PLUGS

1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D. One black and one red.
2ND END: Stacking Miniature Banana Plugs. Brass body, beryllium copper spring, gold plated. Fits miniature 2.64 (.104) dia. banana jacks. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



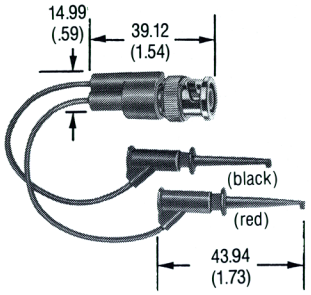
MODEL
3966

OVERALL LENGTH: 177.8 (7.0)

LIST 8.50

BNC MALE TO MICROGRABBER® TEST CLIPS

This molded breakout converts a coaxial cable with a BNC female to a test cable with clips.
1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: Micrograbber Test Clips. Contacts, beryllium copper, gold plated. Glass filled nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

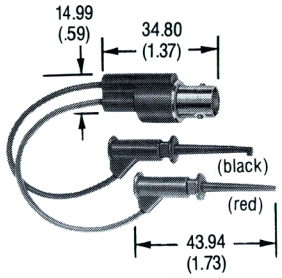


OVERALL LENGTH: 177.8 (7.0)

MODEL 5189 **LIST 10.50**

BNC FEMALE TO MICROGRABBER® TEST CLIPS

This molded breakout converts a coaxial cable with a BNC male to a test cable with clips.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact,beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: Micrograbber Test Clips. Contacts, beryllium copper, gold plated. Glass filled nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

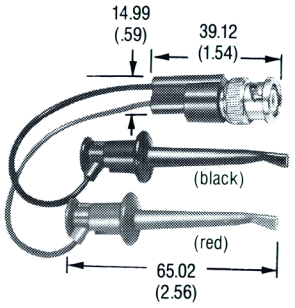


OVERALL LENGTH: 177.8 (7.0)

MODEL 5188 **LIST 9.70**

BNC MALE TO MINIGRABBER® TEST CLIPS

This molded breakout converts a coaxial cable with a BNC female to a test cable with clips.
1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: Minigrabber Test Clips. Contacts, beryllium copper, gold plated. Glass filled nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

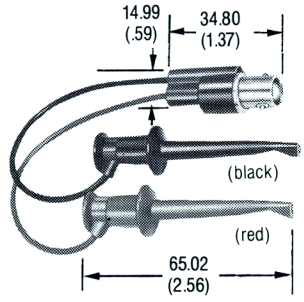


OVERALL LENGTH: 177.8 (7.0)

MODEL 3789 **LIST 9.00**

BNC FEMALE TO MINIGRABBER® TEST CLIPS

This molded breakout converts a coaxial cable with a BNC male to a test cable with clips.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: Minigrabber Test Clips. Contacts, beryllium copper, gold plated. Glass filled nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

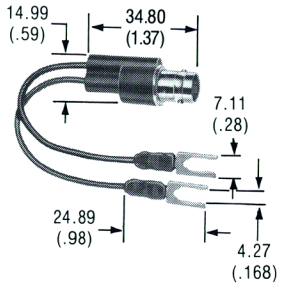


OVERALL LENGTH: 177.8 (7.0)

MODEL 3788 **LIST 7.30**

BNC FEMALE TO #8 SPADE LUGS

This molded breakout allows a BNC cable to be used with equipment having #8 screw terminals, such as fanning strips, etc.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: #8 Spade Lugs. Copper, tin plated. Insulation, vinyl. One black and one red.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

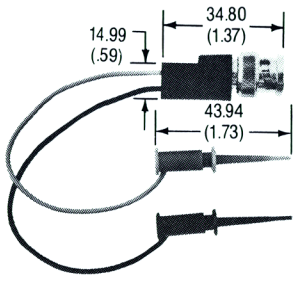


OVERALL LENGTH: 177.8 (7.0)

MODEL 5051 **LIST 6.30**

BNC MALE TO SMD GRABBER® TEST CLIPS

The pincer type action on this grabber allows attachment to the smallest of leads.
1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated. 1.63 (.064) O.D. One black and one red.
2ND END: SMD Grabber Test Clips. Selectively gold plated stainless steel contact. Glass filled nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



OVERALL LENGTH: 177.8 (7.0)

MODEL 5410 **LIST 12.50**

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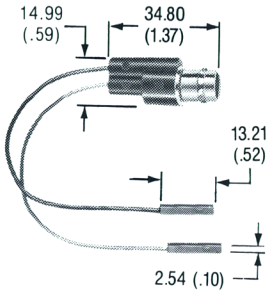
BNC FEMALE TO 0.64 (.025) SQ. RECEPTACLES

This molded breakout can be attached directly to the 0.64 (.025) square pins on a circuit card.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact,beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated. 1.63 (.064) O.D. One black and one red.
2ND END: 0.64 (.025) Square Pin Receptacles. Phosphor bronze, gold plated. ABS insulation. One black and one red.
RATING: 500 VRMS, +50°C. (+122°F.) Max.



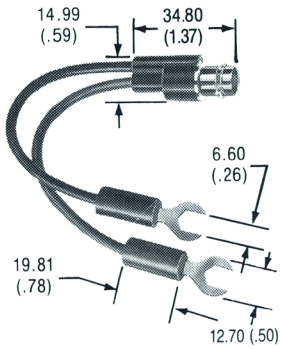
MODEL 5069

OVERALL LENGTH: 177.8 (7.0)

LIST 7.45

BNC FEMALE TO SPADE LUGS

This breakout allows a BNC cable to be used with equipment having binding posts.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact,beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated. 3.66 (.144) O.D. One black and one red.
2ND END: 1/4" Sapde Lugs. Brass, nickel plated. Insulation, polypropylene. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



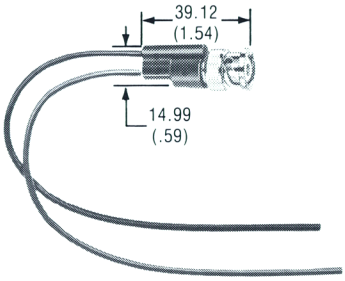
MODEL 5009

OVERALL LENGTH: 177.8 (7.0)

LIST 8.85

BNC MALE TO 20 AWG LEADS

Attach your own breakout or wire directly to circuit board.
1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: None.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



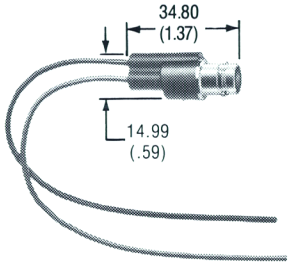
MODEL 4970

OVERALL LENGTH: 177.8 (7.0)

LIST 6.85

BNC FEMALE TO 20 AWG LEADS

Attach your own breakout or wire directly to circuit board.
1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated. 2.21 (.087) O.D. One black and one red.
2ND END: None.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

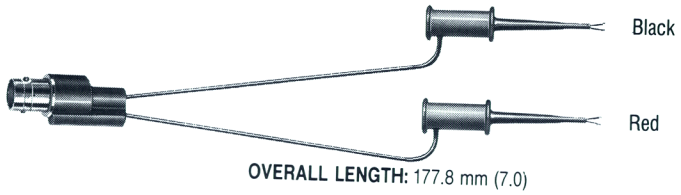


MODEL 4969

OVERALL LENGTH: 177.8 (7.0)

LIST 4.95

BNC FEMALE TO SMD GRABBER® TEST CLIPS



OVERALL LENGTH: 177.8 (7.0)

1ST END: BNC Female. Brass body, tarnish resistant plated. Center contact,beryllium copper, gold plated. Nominal impedance, 50 Ohms. Insulation, polypropylene, black.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated. 1.63 (.064) O.D. One black and one red.

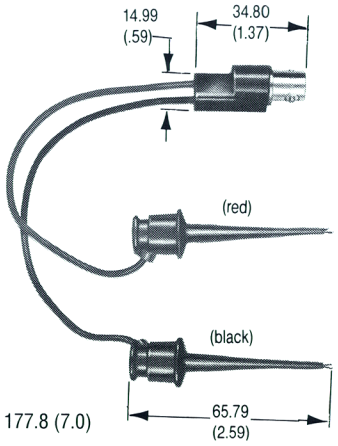
2ND END: SMD Grabber Test Clips. Contact, selectively gold plated stainless steel. Insulation, glass filled insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.

MODEL 5305

LIST 10.00

BNC FEMALE TO MINIPINCER® TEST CLIPS

1ST END: BNC Female. Tarnish resistant plated brass body. Gold plated beryllium copper center contact. Insulation, polypropylene, black.
WIRE: 20 AWG, 41 X 36 t.c., PVC insulated, 2.21 (.087) O.D. One black and one red.
2ND END: Minpincer Test Clips. Selectively gold plated beryllium copper contact. Nylon insulation. One black and one red.
RATING: 500 VRMS, +55°C. (+131°F.) Max.



MODEL 5424

OVERALL LENGTH: 177.8 (7.0)

LIST 8.75

BNC WITHIN SERIES ADAPTER KIT

Kit contains one each:

3283	BNC Female to Female
3284	BNC T (Female/Female/Female)
3285	BNC T (Female/Male/Female)
3533	BNC Male to Male
3534	BNC Right Angle Male to Female
4896	BNC T (Male/Female/Female)

MODEL	LIST
5511	55.00

BNC/BANANA/BINDING POST WITHIN SERIES ADAPTER KIT

Kit contains one each:

1269	BNC Female / Double Banana Plug
1270	BNC Male / Double Banana Plug
1296	BNC Male / Double Binding Post
1452	BNC Female / Double Binding Post
3283	BNC Female to Female
3533	BNC Male to Male

MODEL	LIST
5510	37.75

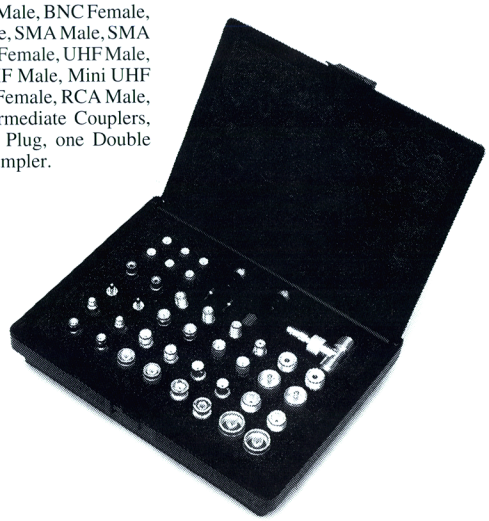
UNIVERSAL ADAPTER KIT

The Universal Adapter Kit, Model 5698 contains 2 pcs. each: BNC Male, BNC Female, TNC Male, TNC Female, SMA Male, SMA Female, "N" Male, "N" Female, four intermediate Couplers, one Double Banana Plug and one Double Banna Jack.

MODEL	LIST
5698	109.00

MAXI UNIVERSAL ADAPTER KIT

The Maxi Adapter Kit, Model 5748 contains 2 pcs. each: BNC Male, BNC Female, TNC Male, TNC Female, SMA Male, SMA Female, "N" Male, "N" Female, UHF Male, UHF Female, Mini UHF Male, Mini UHF Female, "F" Male, "F" Female, RCA Male, RCA Female, six intermediate Couplers, one Double Banana Plug, one Double Banna Jack and one Sampler.



MODEL	LIST
5748	219.00

ADAPTER KIT ACCESSORIES

Individual adapters for the Universal Adapter Kits are also available.

Coupling nut Adapter to	Model No.	Used in Kit No. 5698	Used in Kit No. 5748	LIST	Coupling nut Adapter to	Model No.	Used in Kit No. 5698	Used in Kit No. 5748	LIST
BNC (m)	5735	2	2	4.20	Mini UHF (m)	5753		2	3.50
BNC (f)	5739	2	2	3.40	MIni UHF (f)	5757		2	3.30
TNC (m)	5736	2	2	4.20	RCA (m)	5754		2	5.50
TNC (f)	5740	2	2	3.50	RCA (f)	5758		2	5.70
SMA (m)	5737	2	2	3.60	F (m)	5755		2	4.80
SMA (f)	5741	2	2	3.30	F (f)	5759		2	5.10
N (m)	5734	2	2	4.60	Coupler	5742	4	6	3.40
N (f)	5738	2	2	3.70	Dbl Banana Plug	5743	1	1	10.90
UHF (m)	5752	2	2	4.60	Dbl BInding Post	5744	1	1	13.20
UHF (f)	5756	2	2	3.50	Sampler	5760		1	16.00

UNIVERSAL COUPLING NUT CABLE ASSEMBLY

This cable allows the user to make cable assemblies from any of the coaxial adapters in the Universal or Maxi Adapter Kits. Individual connectors can be threaded onto the coupling nut on each end of the cable for additional utility.

MODEL	Length	LIST
5749-36	914.4 (36.0)	7.50
5749-72	1828.8 (72.0)	9.50

1ST END: Threaded Coupling Nut. Gold plated center contact.

CABLE: RG 58C/U O.D. 4.95 (.195)

2ND END: Same as first end. O.D.

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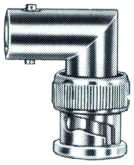
COAXIAL ADAPTERS

Model 3533



Model 3534

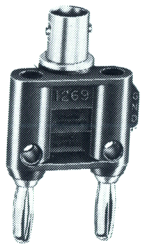
Model 4282

Model 4295

Description	MODEL	LIST	Description	MODEL	LIST	Description	MODEL	LIST
BNC (f/f)	3283	4.15	BNC (m)/"N" (m)	3535	10.75	SMA (m)/TNC (m)	4292	35.50
BNC (m/m)	3533	7.80	BNC (f)/ "N" (m)	3288	7.50	SMA (f)/TNC (f)	4294	27.35
BNC (f/m/f)	3285	10.95	BNC (m)/UHF (f)	3287	10.85	SMA (f)/TNC (m)	4293	30.95
BNC (f/f/f)	3284	12.10	BNC (m)/UHF (m)	3286	7.15	SMA (f)/TNC (f)	4296	32.95
BNC (m/f/f)	4896	16.90	BNC (m)/"C" (f)	3845	14.85	SMA (m)/"N" (m)	4298	27.30
BNC (f/m)	3534	9.50	BNC (m)/TNC (f)	5086	10.25	SMA (m)/"N" (f)	4297	30.80
"N" (f/f)	3841	9.20	BNC (f)/TNC (m)	3844	11.45	SMA (f)/"N" (m)	4299	23.60
"N" (m/m)	3842	10.30	SMA (m)/BNC (m)	4288	25.85	SMA (f)/"N" (f)	4283	28.70
"N" (f/m)	3843	16.00	SMA (m)/BNC (f)	4290	20.40	SMA (m/m)	4285	40.50
"N" (f/f/f)	5089	18.35	SMA (f)/BNC (m)	4289	26.80	SMA (f/m)	4282	41.40
TNC (f/f)	4940	7.95	SMA (f)/BNC (f)	4291	20.70	SMA (f/f)	4284	28.65

ADAPTERS

Description	MODEL	LIST
BNC (f)/Double Banana Plug	1269	5.15
BNC (m) /Double Banana Plug	1270	8.05
BNC (m)/Double Banana Plug	1296	9.60
BNC (f)/Double Binding Posts	1452	8.05
BNC (m)/SIngle Binding Post	3430-0	4.80



Model 1269

Model 1296

Model 3430

COAXIAL PLUGS

Model 4287

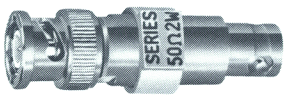
Description	MODEL	LIST
SMA Male Termination	4286	73.05
SMA Female Termination	4287	84.95
BNC Shorting Plug	5085	6.35
SMA Shorting Plug	5088	17.25

TRIAXIAL ADAPTERS

Model 5298

Description	MODEL	LIST
3 Lug Triax (f/f)	5278	14.35
2 Lug Triax (f/f)	5290	15.10
3 Lug Triax (f)/BNC (m)	5299	17.00
2 Lug Triax (f)/BNC (m)	5298	17.90
2 Lug Triax (m)/BNC (f)	5090	19.10
3 Lug Triax (m)/BNC (f)	5300	17.50

ATTENUATORS / TERMINATIONS



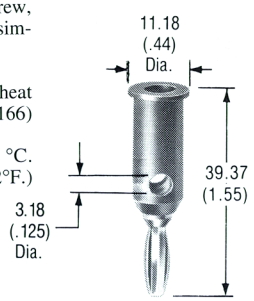
Model 4391

Description	MODEL	Specification	LIST
BNC 50 Ohm Attenuator	4108	3dB, 6dB, 10dB, 14dB, 20dB Attenuation	49.95
BNC Feed-Thru Series Resistor	4391	25, 50, 75, 93, or 600 Ohm Resistance	22.95
BNC Feed-Thru Termination	4119	50, 75, 93, or 600 OhmResistance	39.95
BNC Resistor Terminated Plug	3840	50, 75, 93, 100 or 600 Ohm Resistance	8.95
BNC Feed-Thru Series Capacitor	5297		20.95
"N" Resistor Terminated Plug	4240	50, 75 or 600 Ohm Resistance	18.55
BNC Termination Kit	5512	Contains 3840-50, 75, 93, 100 and 600 Ohm	41.00
BNC 50 Ohm Attenuator Kit	5513	Contains 4108-3dB,-6dB,10dB,14dB and 20dB	225.00

Model 5512

SOLDERLESS STACKUP BANANA PLUG

Wire firmly held in place with internal setscrew, eliminating soldering. Assembly of test leads simplified.
UPPER: Banana Jack, 4.22 (.166) dia., brass.
LOWER: Banana Plug. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50 °C. (+122°F.) Max. (Model 5230, +150°C. (+302°F.) Max.)

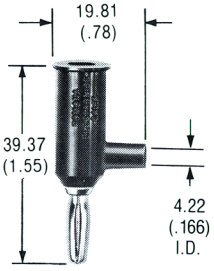


(**Pkg. Ten Per Color)

MODEL	FINISH	INSULATION	*STD COLORS:	LIST
1325-*	Nickel plated	ABS	-0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White	11.00 Pkg**
5406-*	Gold plated	ABS	-0 Black, -2 Red	2.25
5230-*	Nickel plated	Polyphenylene Sulfide	-0 Black, -6 Blue	14.50 Pkg**

SOLDERLESS STACKUP BANANA PLUG WITH SAFETY COLLAR

Features integral safety collar that insulates exposed wire leads. Wire firmly held in place with internal setscrew, eliminates soldering, simplifies assembly of test leads.
UPPER: Banana Jack. 4.22 (.166) dia., brass.
LOWER: Banana Plug. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max., (Model 4899, +150°C. (+302°F.) Max.)



(**Pkg. Ten Per Color)

MODEL	FINISH	INSULATION	*STD COLORS:	LIST
1825-*	Nickel plated	ABS	-0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White	11.00 Pkg**
4897-*	Gold plated	ABS	-0 Black, -2 Red	2.25
4899-*	Nickel plated	Polyphenylene Sulfide	-0 Black, -6 Blue	14.00 Pkg**

DO-IT-YOURSELF IN-LINE SHEATHED BANANA PLUG

This sheathed in-line banana plug provides protection from accidental shorting when dropped. A plastic tip on the banana plug offers further protection. A threaded, two piece design allows wire to be crimped or soldered to banana plug. This plug fits models 4922, 4921, 4934 & 4987.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
INSULATION: Nylon.
RATING (Independent of Wire): 1200 V AC/DC, 15 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MODEL	Accepts wire AWG	Wire access hole
4933-*	22, 20, 18	4.04 (.159) Dia.
4986-*	16, 14	5.08 (.200) Dia.

(unassembled)
LIST 2.75

DO-IT-YOURSELF IN-LINE SHEATHED BANANA JACK

This sheathed in-line banana jack provides protection from accidental shorting when dropped. It will also accept any standard banana plug. A threaded, two piece design allows wire to be crimped or soldered to banana plug. This plug fits models 4912, 4913, 4933 & 4986.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Nylon.
RATING (Independent of Wire): 1200 V AC/DC, 15 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MODEL	Accepts wire AWG	Wire access hole
4934-*	22, 20, 18	4.04 (.159) Dia.
4987-*	16, 14	5.08 (.200) Dia.

(unassembled)
LIST 2.85

DO-IT-YOURSELF IN-LINE BANANA PLUG WITH FLEXIBLE BOOT

This in-line banana plug is ideal for making patch cords and field repairs. A snap-on two piece design allows the wire to be crimped or soldered to the banana plug.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
INSULATION: Flexible PVC.
RATING (Independent of Wire): 5000 WVDC,15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

†Max. wire dia. 3.94 (.155)

MODEL	Accepts wire AWG†
5169-*	22, 20, 18
5170-*	16, 14

(unassembled)
LIST 1.90

DO-IT-YOURSELF IN-LINE BANANA JACK WITH FLEXIBLE BOOT

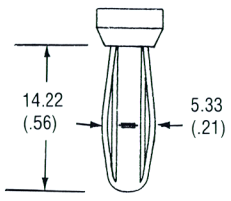
This in-line banana jack is ideal for making patch cords and field repairs. A snap-on two piece design allows the wire to be crimped or soldered to the banana jack.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Flexible PVC.
RATING (Independent of Wire): 5000 WVDC,15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

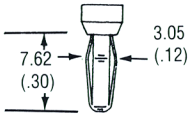
†Max. wire dia. 3.94 (.155)

MODEL	Accepts wire AWG†	LIST
5167-*	22, 20, 18	15.00 Pkg.**
5168-*	16, 14	1.85

(**Pkg. Ten Per Color)

STANDARD / MINIATURE BANANA PLUG





DO-IT-YOURSELF LOW COST BANANA PLUG

Do-it-yourself banana plug accepts 3.66 (.144) O.D. max. wire insulation.
Banana Plug is also sold on a patch cord Model 5730, pg. 90.
MATERIAL: Beryllium copper, nickel plated.
INSULATION: Nylon.
RATING: 1200 V AC DC, 15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MODEL
5750-*

LIST .75

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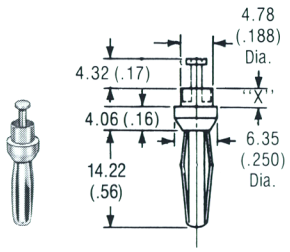
Sales: (909) 469-2900 Technical Assistance: (909) 469-2928 FAX: (909) 629-3317

RIVET TYPE BANANA PLUG WITH TURRET

Excellent for riveting to panels or boards. Solder turret for rapid attachment of wires.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
RATING: 5000 WVDC, 15 Amps.



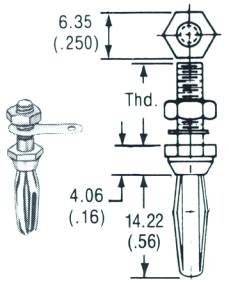
Swage tool information furnished on request.

MODEL	"X" Dim	Panel
3260	2.67 (.105)	1.57 (.062)
3261	3.43 (.135)	2.37 (.093)

LIST 10.50 PKG
(Ten Per Pkg.)

BANANA PLUG WITH THREADED STUD

Threaded stud for rapid mounting. Furnished with hex nut and tin plated solder lug.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
RATING: 5000 WVDC, 15 Amps.

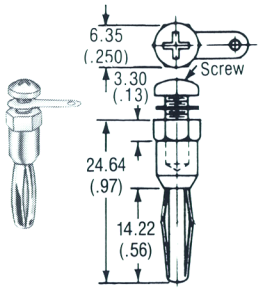


MODEL	Thread	LIST
3263	6-32x12.7 (.50)	12.00 Pkg
3264	8-32x12.7 (.50)	12.00 Pkg
4511	6-32x15.9 (.63)	13.50 Pkg
4512	8-32x1.59 (.63)	14.00 Pkg

(Ten Per Pkg., unassembled)

BANANA PLUG WITH SCREW

Mounts to various size panels. Furnished with screw and tin plated solder lug.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
RATING: 5000 WVDC, 15 Amps.



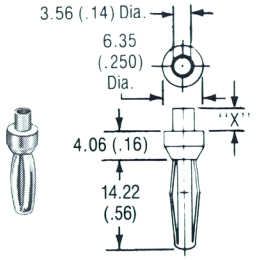
MODEL	Thread
3265	6-32x6.4 (.25)
3266	8-32x6.4 (.25)

(unassembled)

LIST 14.00 PKG
(Ten Per Pkg.)

RIVET TYPE BANANA PLUG

Excellent for riveting to panels or boards.
MATERIAL: Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
RATING: 5000 WVDC, 15 Amps.



Swage tool information furnished on request.

MODEL	"X" Dim.	Panel	LIST
3257	2.39 (.094)	1.57 (.062)	11.00 Pkg
3258	3.18 (.125)	3.27 (.093)	10.00 Pkg

(Ten Per Pkg.)

SETSCREW

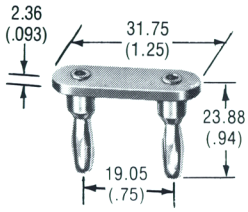
8-32 X 5.33 (.210) headless, slotted steel, zinc plated setscrew. Fits models MDP, 1325, 1330, 1825, 1858, 2970, 4892, 4897, 4898, 4899, 4966, 5230 and 5406.

MODEL
4914

LIST 13.50 PKG.
(100 Per Pkg.)

DOUBLE BANANA PLUG SHORTING BAR

MATERIAL: Bar and banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
RATING: 15 Amps, +125°C. (+257°F.) Max., resistance less than 1.5 Milliohms.

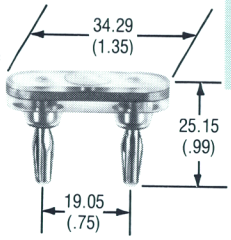


MODEL
1855

LIST 3.75

ENCAPSULATED DOUBLE BANANA PLUG SHORTING BAR

Low profile, completely insulated shorting bar. Insulation has finger ridge for ease of insertion and removal.
MATERIAL: Bar and banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
INSULATION: ABS, clear.
RATING: 15 Amps, +50°C. (+122°F.) Max., resistance less than 1.5 Milliohms.

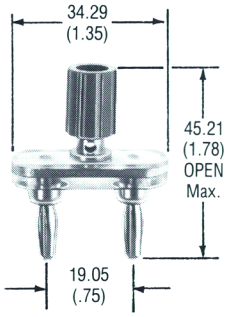


MODEL
5145

LIST 4.50

ENCAPSUALTED DOUBLE BANANA PLUG SHORTING BAR WITH BINDING POST

Shorting bar is completely encapsulated in clear ABS thermoplastic.
MATERIAL: Binding post, thumb nut, shorting bar and banana plug body, brass. Spring, one piece heat treated beryllium copper. Banana plug fits standard 4.22 (.166) dia. banana jack.
FINISH: Nickel plated.
INSULATION: Binding post, polycarbonate. Shorting bar, ABS, clear.
RATING: 2500 WVDC, 15 Amps, +50° C. (+122°F.) Max., Resistance less than 1.5 milliohms.
***BINDING POST COLORS:** -0 Black, -2 Red.

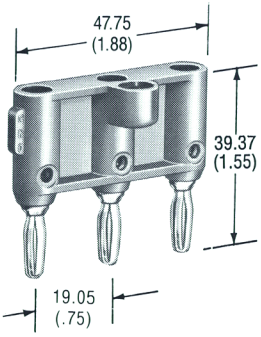


MODEL
5165-*

LIST 7.50

TRIPLE BANANA PLUG

Setscrews secure leads. Ideal for balanced line 2 conductor shielded cable assemblies.
UPPER: Triple banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: Triple banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.)Max.
***STD COLORS:** -0 Black, -2 Red.

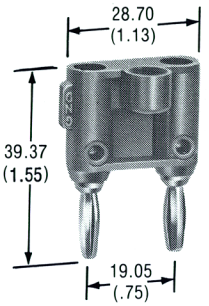


MODEL
2970-*

LIST 3.85

STANDARD DOUBLE BANANA PLUG

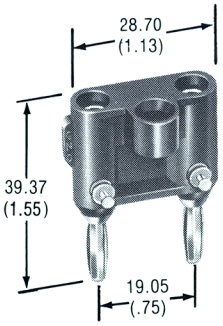
Setscrews secure leads. Simplifies cable construction or component mounting. Accommodates 5.46 (.215) max. dia. cable.
UPPER: Double Banana Jack. 4.22 (.166) dia., brass.
LOWER: Double Banana Plug. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max. (Model 4898, +150°C. (+302°F.) Max.)



MODEL	FINISH	INSULATION	*STD COLORS:	LIST
MDP-*	Nickel plated	ABS	-0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White	1.90
4892-*	Gold plated	ABS	-0 Black, -2 Red	3.75
4898-*	Nickel plated	Polyphenylene Sulfide	-0 Black, -6 Blue	2.15

DOUBLE BANANA PLUG WITH SOLDER TURRET TERMINALS

Similar to MDP, except has bright tin plated solder turret terminals for permanent noise-free connections of cables and components.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene, black.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.

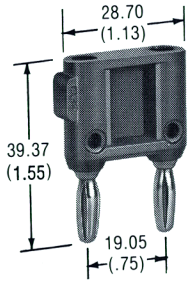


MODEL
MDP-ST

LIST 2.65

COMPONENT MOUNTING DOUBLE BANANA PLUG

Setscrews secure leads. Features recess for mounting small components.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

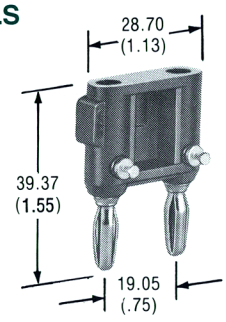


MODEL
1330-*

LIST 2.10

COMPONENT MOUNTING DOUBLE BANANA PLUG WITH SOLDER TURRET TERMINALS

Similar to Model 1330, except has bright tin plated solder turret terminals.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

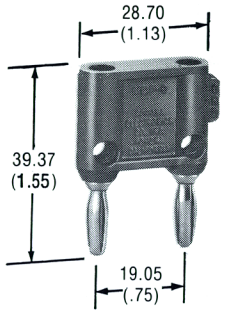


MODEL
1330-ST-*

LIST 2.65

DOUBLE BANANA PLUG WITH SHORTING BAR

Banana plugs internally shorted with #18 AWG wire. Banana jacks provide top stackup. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.)Max.
***STD COLORS:** -0 Black, -2 Red, -9 White.

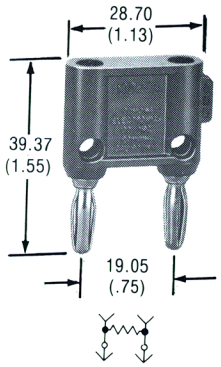


MODEL
MDP-S-*

LIST 3.15

MOLDED PRECISION RESISTOR

Ideal where rapid interchange of resistance values is required. Deposited carbon 1% resistor, 1/2 watt, molded internally. Cross holes 4.22 (.166) dia. in body provide side stackup connections. Resistance value stamped on top of plug.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS, red.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 1/2 Watt Max., 350 WVDC, +50°C. (+122°F.) Max.

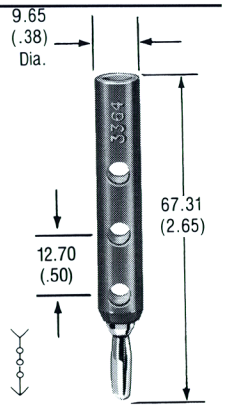


MODEL	*Specifiy Resistance in Ohms				
MDP-R-*	50	150	900	10K	100K
	75	200	1K	20K	1 Meg.
	130	600	5K	50K	10 Meg.

LIST 8.25

QUAD STACKING PLUG

Features four parallel connectors to the same point. 3 cross holes, 4.22 (.166) dia., provide side stackup connection.
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: Banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

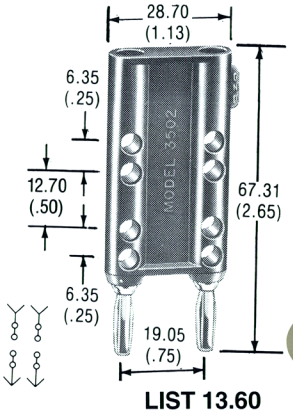


MODEL
3364-*

LIST 8.60

DUAL SERIES-PARALLEL ISOLATON PLUG

Top banana jacks and upper pair of cross holes isolated from lower pair of cross holes and banana plugs. 8 cross holes 4.22 (.166) dia.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS, red.
LOWER: Double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.



MODEL
3502

LIST 13.60

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DO-IT-YOURSELF 4mm (.16) BANANA PLUG

RATING: 750 VRMS, 16 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5934-*	5.60 PKG Pkg. Ten per Color

4mm (.16) BANANA JACK

RATING: 750 VRMS, 25 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5933-*	3.00 PKG Pkg. Ten per Color

DO-IT-YOURSELF 2mm (.08) BANANA PLUG

RATING: 500 VRMS, 5 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5936-*	4.50 PKG Pkg. Ten per Color

2mm (.08) BANANA JACK

Mates with Flexible Test Leads (Model 5907, 5908 and 5909).
RATING: 500 VRMS, 5 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5935-*	4.50 PKG Pkg. Ten per Color

4mm (.16) BINDING POST

RATING: 750 VRMS, 25 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5932-*	10.50 PKG Pkg. Ten per Color

SHEATHED 4mm (.16) BANANA JACK

RATING: 1000 VRMS, 36 Amps, ≤ 1mΩ.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.
Bulk Pack available.

MODEL	LIST
5931-*	13.00 PKG Pkg. Ten per Color

4mm (.16) BANANA PLUG, EACH END

RATING: 1500 VRMS, 20 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red.

MODEL	LENGTH	LIST
5937-20-*	.5 Meter (20.0)	2.50
5937- 40-*	1 Meter (40.0)	3.00

4mm (.16) BANANA PLUG TO BANANA JACK

RATING: 1500 VRMS, 20 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red.

MODEL	LENGTH	LIST
5938-20-*	.5 Meter (20.0)	2.50
5938- 40-*	1 Meter (40.0)	3.00

4mm (.16) RETRACTBLE SHEATH BANANA PLUG, EACH END

RATING: 1500 VRMS, 20 Amps, ≤ 2mΩ.
***STD COLORS:** -0 Black, -2 Red.

MODEL	LENGTH	LIST
5939-20-*	.5 Meter (20.0)	5.00
5939- 40-*	1 Meter (40.0)	5.50

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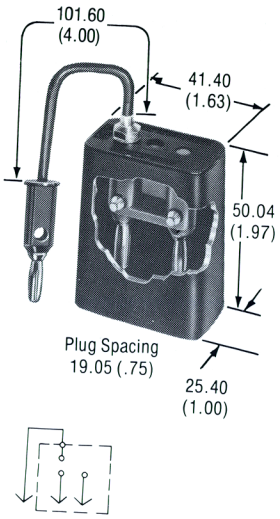
SHIELDED DOUBLE BANANA PLUG WITH IN-LINE CABLE ENTRY

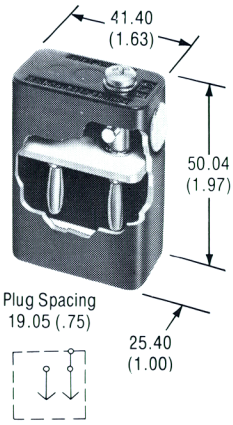
Shielded double banana plug with GND molded in shell. Bright tin plated solder turret terminals for cable connections. 5.56 (.219) dia. cable opening.
MATERIAL: Shell, die cast aluminum. Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Shell, black anodized. Banana plug, nickel plated.
INSULATION: Polypropylene, black.
RATING: 1200 WVDC, 15 Amps, +55°C. (+131°F.) Max., 2.5 pF @ 1 MHz.



MODEL **1433** — **LIST 15.80**

SHIELDED DOUBLE BANANA PLUG WITH RIGHT ANGLE CABLE ENTRY

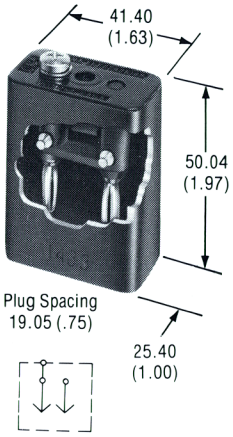
Shielded double banana plug with GND molded in shell. Bright tin plated solder turret terminals for cable connections. Vinyl grommet (one side) and nickel plated snap button (other side) supplied. 6.35 (.25) dia. side entry.
MATERIAL: Shell, die cast aluminum. Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Shell, black anodized. Banana plug, nickel plated.
INSULATION: Polycarbonate base, white.
RATING: 2800 W V Peak, 15 Amps, +55°C. (+131°F.) Max., 2.0 pF @ 1MHz.



MODEL **1791** — **LIST 25.80**

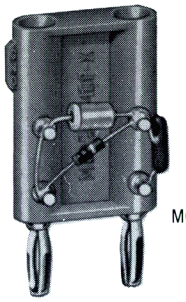
BALANCED LINE SHIELDED DOUBLE BANANA PLUG

Three terminal design allows connection to shielded two conductor cable while maintaining balanced conditions. Minimizes ground loop errors in low signal level applications. Bright tin plated solder turret terminals for reliable noise-free connections.
MATERIAL: Shell, die cast aluminum. Banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits standard 4.22 (.166) dia. banana jack.
FINISH: Shell, black anodized. Banana plug, nickel plated.
INSULATION: Polypropylene, red.
RATING: 1000 W V Peak, Line to Shield; 2000 W V Peak, Line to Line; 2.0 pF @ 1 MHz, Line to Line; 3.0 pF @ 1MHz, both lines to shield; 15 Amps, +55°C. (+131°F.) Max.



MODEL **1921** — **LIST 24.75**

SPLIT-TERMINAL ISOLATION PLUGS

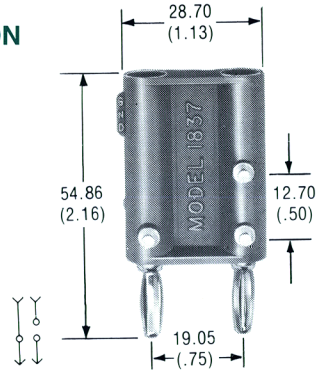


MODEL MDP-X SHOWN

MODEL 1390 SHOWN

DOUBLE BANANA PLUG THREE TERMINAL ISOLATION

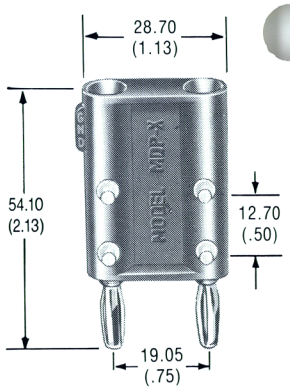
Provides three terminal isolation. Excellent for "L" and "Pi" networks. Bright tin plated solder turret terminals for permanent noise-free connections. "Ground" is straight feed-thru. Hot side isolated.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene, blue.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper. Nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 2500 WVDC, 15 Amps, +55°C. (+131°F.) MAX.



MODEL **1837** — **LIST 9.90**

DOUBLE BANANA PLUG FOUR TERMINAL ISOLATION

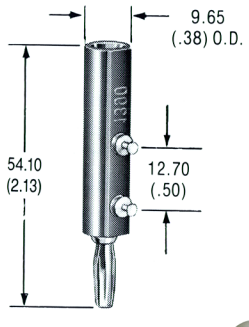
Provides four terminal isolation. Top stackup receptacles isolated from lower plugs. Ideal for insertion of matching network in laboratory VTVM's signal generators, etc. Bright tin plated solder turret terminals for permanent noise-free connections.
UPPER: Double banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene, red.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper. Nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 2500 WVDC, 15 Amps, +55°C. (+131°F.) MAX.



MODEL **MDP-X** — **LIST 8.85**

SINGLE BANANA PLUG TWO TERMINAL ISOLATION

Provides two terminal isolation. Top stackup receptacle is isolated from lower plug to permit addition of series resistors, diodes, etc. Ideal for computers, lab, circuit design and testing. Bright tin plated solder turret terminals for permanent noise-free connections.
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene.
LOWER: Banana plug. Spring, one piece heat treated beryllium copper. Nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 2500 WVDC, 15 Amps, +55°C. (+131°F.) MAX.
***STD COLORS**: -0 Black, -2 Red.



MODEL **1390-*** — **LIST 4.85**

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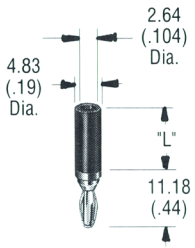
MINIATURE SOLDER TYPE BANANA PLUG

Miniature in-line plug for use with miniature binding posts or banana jacks. Wire is soldered directly to threaded plug.
MATERIAL: Miniature banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits miniature 2.64 (.104) dia. banana jack.
FINISH: Gold plated.
INSULATION: Nylon.
RATING: 2500 WVDC, 5 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

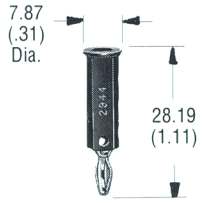


MODEL	"L"	LIST
3690-*	11.43 (.45)	14.50 PKG†
4617-*	25.4 (1.00)	2.55 EA

†(Pkg. Ten Per Color)

MINIATURE SOLDERLESS STACKUP BANANA PLUG

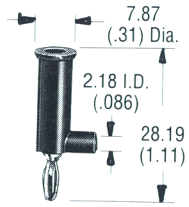
Wire firmly held in place with internal setscrew.
UPPER: Miniature banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: ABS.
LOWER: Miniature banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **2944-*** (Recommend using Screwdriver No. 3736) **LIST 2.60**

MINIATURE SOLDERLESS STACKUP BANANA PLUG WITH SAFETY COLLAR

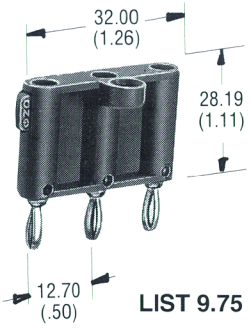
Wire firmly held in place with internal setscrew. The integral collar insulates leads and acts as a strain relief by preventing the flexing of lead at setscrew.
UPPER: Miniature banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: ABS.
LOWER: Miniature banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **2945-*** (Recommend using Screwdriver No. 3736) **LIST 2.65**

MINIATURE SOLDERLESS TYPE BANANA PLUG

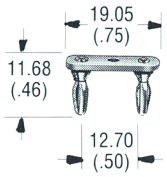
Ideal for balanced line 2 connector shielded cable assemblies. Setscrews secure leads.
UPPER: Miniature triple banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: ABS, black.
LOWER: Miniature triple banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.



MODEL **4653-0** (Recommend using Screwdriver No. 3736) **LIST 9.75**

METAL SHORTING BAR

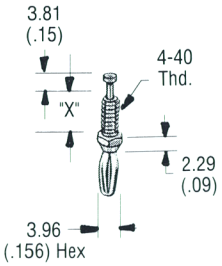
Low profile 1.57 (.062) thick brass shorting bar. Center hole accepts #4-40 screw, for easy removal.
MATERIAL: Bar and miniature banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits miniature 2.64 (.104) dia. banana jack.
FINISH: Gold plated.
RATING: 5 Amps. Resistance less than 1.5 milliohms.



MODEL **3030** **LIST 2.90**

MINIATURE BANANA PLUG WITH THREADED STUD

Threaded stud for rapid mounting. Solder turret for attachment of wires. Furnished with nickel plated 4-40 hex nut, unassembled.
MATERIAL: Miniature banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits miniature 2.64 (.104) dia. banana jack.
FINISH: Gold plated.
RATING: 2500 WVDC, 5 Amps.

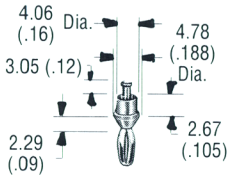


MODEL	"X" Dim.	LIST
3276	5.84 (.230)	10.00 PKG
4513	12.19 (.480)	14.50 PKG

(Ten Per Pkg., unassembled)

MINIATURE RIVET TYPE BANANA PLUG WITH TURRET

Excellent for riveting to panels or boards. Solder turret for rapid attachment of wires. Mounts in 1.57 (.062) panel.
MATERIAL: Miniature banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits miniature 2.64 (.104) dia. banana jack.
FINISH: Gold plated.
RATING: 2500 WVDC, 5 Amps.

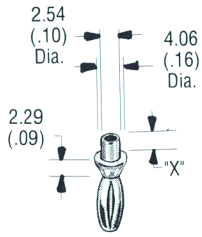


MODEL **3273** Swage tool information furnished on request. **LIST 8.50 PKG** (Ten Per Pkg.)

MINIATURE RIVET TYPE BANANA PLUG

Excellent for riveting to panels or boards.
MATERIAL: Miniature banana plug body, brass. Spring, one piece heat treated beryllium copper. Fits miniature 2.64 (.104) dia. banana jack.
FINISH: Gold plated.
RATING: 2500 WVDC, 5 Amps.

Swage tool information furnished on request.

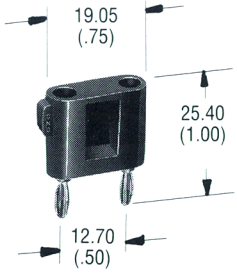


MODEL	"X" Dim	Panel
3268	2.39 (.094)	1.57 (.062)
3271	3.18 (.125)	2.37 (.093)
3272	3.96 (.156)	3.17 (.125)

LIST 8.50 PKG (Ten Per Pkg.)

MINIATURE DOUBLE BANANA PLUG WITH SHORTING BAR

UPPER: Miniature double banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: ABS.
LOWER: Miniature double banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **2035-*** **LIST 4.05**

MINIATURE SCREWDRIVER FOR SETSCREWS

A specially designed screwdriver with slender tip for tightening of setscrews on miniature plugs.
MATERIAL: Steel.
INSULATION: Polycarbonate, orange.

MODEL **3736** **LIST 3.00**

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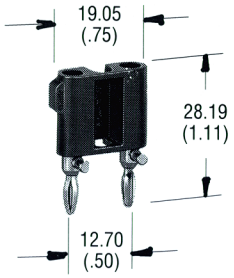
MINIATURE DOUBLE BANANA PLUG WITH SOLDER TURRET TERMINALS

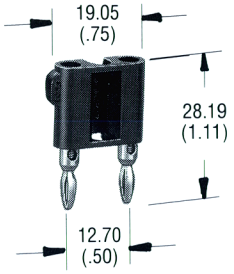
Accommodates 3.81 (.15) max. dia. cable.
UPPER: Miniature double banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: Polypropylene.
LOWER: Miniature double banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack. Solder turret terminals, brass, gold plated.
RATING: 2500 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
2245-*	4.80

MINIATURE DOUBLE BANANA PLUG WITH SETSCREWS

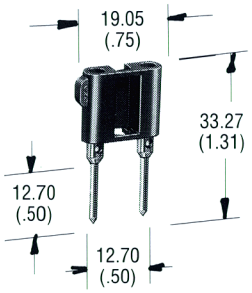
Internal setscrews to secure cable or component leads. Accommodates 3.81 (.15) dia. cable.
UPPER: Miniature double banana jack. 2.64 (.104) dia., brass, gold plated.
INSULATION: ABS.
LOWER: Miniature double banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack. Setscrew, steel, nickel plated.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		LIST
2244-*	(Recommend using Screwdriver No. 3736)	3.75

MINIATURE DOUBLE PIN TIP PLUG WITH SETSCREWS

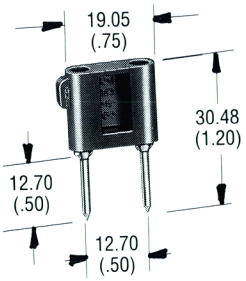
2.03 (.080) dia. double pin tip plug on 12.70 (.500) centers. Setscrews secure cable or component leads.
UPPER: Double miniature banana jack. 2.64 (.104) dia. brass, gold plated.
INSULATION: ABS.
LOWER: Double pin tip plug. Brass, gold plated. Setscrew, steel, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		LIST
3544-*	(Recommend using Screwdriver No. 3736)	4.55

MINIATURE DOUBLE PIN TIP PLUG WITH SHORTING BAR

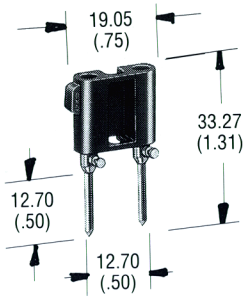
Ideal as a connecting link for use with 12.70 (.500) spaced pin jacks. 2.03 (.080) double pin tip plug internally solder-bonded with #20 AWG wire. "Shorting bar" stamped on insulation.
UPPER: Double pin jack. Spring, beryllium copper, gold plated.
INSULATION: ABS.
LOWER: Double pin tip plug. Brass, gold plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
3452-*	3.75

MINIATURE DOUBLE PIN TIP PLUG WITH SOLDER TURRET TERMINALS

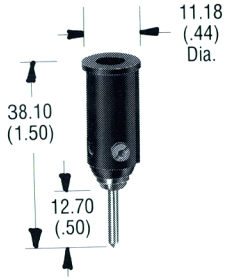
2.03 (.080) dia. double pin tip plug on 12.70 (.500) centers. Solder turret terminals for permanent noise-free connection of cables.
UPPER: Double pin jack. Spring, beryllium copper, gold plated. Accepts 2.03 (.080) dia. pin.
INSULATION: Polypropylene.
LOWER: Double pin tip plug with solder turret teminals. Brass, gold plated.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
3545-*	7.25

SOLDERLESS STACKUP PIN TIP PLUG

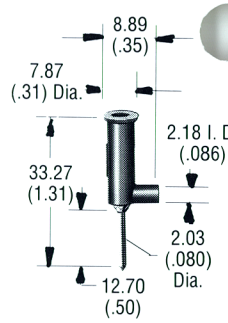
Wire firmly held in place with internal setscrew, eliminating soldering. Assembly of test leads simplified.
UPPER: Pin jack. Spring, beryllium copper, gold plated. Accepts 2.03 (.080) dia. pin.
INSULATION: ABS.
LOWER: Pin tip plug. Brass, nickel plated. Nylon setscrew.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
1922-*	3.95

SOLDERLESS PIN TIP PLUG WITH SAFETY COLLAR

This integral collar insulates exposed wire leads and acts as a strain relief by preventing the flexing of the lead at the setscrew. Wire firmly held in place with internal setscrew.
UPPER: Miniature banana jack. Brass, gold plated.
INSULATION: ABS.
LOWER: Pin tip plug. Brass, gold plated. Setscrew, steel, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		LIST
3548-*	(Recommend using Screwdriver No. 3736)	2.90

DO-IT-YOURSELF IN-LINE PIN TIP PLUG WITH FLEXIBLE BOOT

This in-line 2.03 (.080) dia. pin tip plug is ideal for making patch cords and field repairs. A snap-on two piece design allows the wire to be crimped or soldered to the pin tip plug.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Flexible PVC.
RATING (Independent of Wire): 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

**Max. wire dia. 3.94 (.155)

MODEL	Accepts wire AWG**	LIST
5173-*	22, 20, 18	2.00
5174-*	16, 14	2.00

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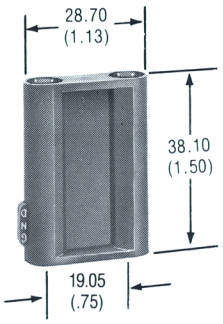
DOUBLE BANANA PLUG SPLICE

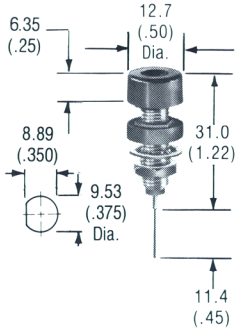
Provides rapid method for splicing cables. Reduces necessity of storing extra long cables. 4.22 (.166) dia. banana jacks.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Polypropylene.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
1823-*	2.40

BANANA JACK WITH WRAPPED WIRE TERMINAL

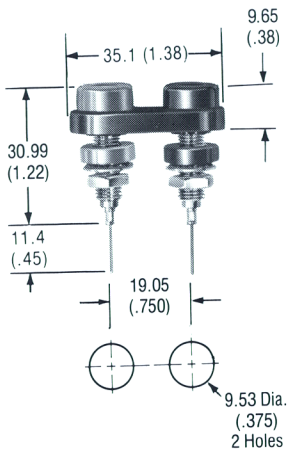
Closed entry receptacle, 4.22 (.166) dia. x 23.37 (.920) deep. Excellent for rapid connection of wires using wrapped wire tools or machines. Mounts in panels from 1.60 (.063) to 9.53 (.375) thick. Nickel plated lockwasher and 1/4-32 hex nut.
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polycarbonate.
LOWER: 0.64 (.025) sq. Wrapped Wire Terminal. Phosphor bronze, gold plated.
RATING: 2500 WVDC, 3 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



MODEL	LIST
4005-* (unassembled)	16.00 PKG (**Ten per Pkg)

DOUBLE BANANA JACK WITH WRAPPED WIRE TERMINAL

Excellent for rapid connection of wire using wrapped wire tools or machines. Closed entry receptacle, 4.22 (.166) dia. x 23.37 (.920) deep on 19.05 (.75) centers. Mounts in panels from 1.60 (.063) to 9.53 (.375) thick. Nickel plated lockwasher and 1/4-32 hex nut. One black and one red jack. Choice of black or red mounting base.
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polycarbonate.
LOWER: 0.64 (.025) sq. Wrapped Wire Terminal. Phosphor bronze, gold plated.
RATING: 2500 WVDC, 3 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLORS:** -0 Black, -2 Red.

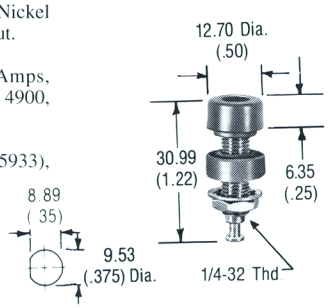


MODEL	LIST
4069-* (unassembled)	3.60

BANANA JACK

Closed entry receptacle, 4.22 (.166) dia. x 23.37 (.920) deep. Mounts in panels from 1.60 (.063) to 9.53 (.375) thick. Nickel plated lockwasher and 1/4-32 hex nut.
MATERIAL: Brass.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max. (Model 4900, +220°C. (+428°F.) Max.)

See Low Cost Banana Jack (Model 5933), page 55.

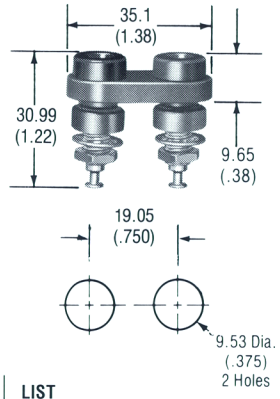


(**Pkg. Ten Per Color)

MODEL	MATERIAL	INSULATION	*STD COLORS	LIST
1581-*	Brass, bright tin plated	Polycarbonate	-0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White	8.00 Pkg.**
2854-*	Brass, gold plated			16.50 Pkg.**
4900-*	Brass, bright tin plated	Polyphenylene Sulfide	-0 Black, -6 Blue	12.00 Pkg.**
5294-*	Tellurium copper, gold plated	Polycarbonate	-0 Black, -2 Red	3.75

DOUBLE BANANA JACK

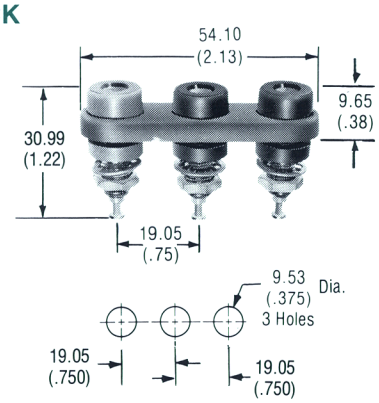
Closed entry receptacle, 4.22 (.166) dia. x 23.37 (.920) deep on 19.05 (.750) centers. Mounts in panels from 1.60 (.063) to 9.53 (.375) thick. Nickel plated lockwasher and 1/4-32 hex nut. Model 2269 has one black and one red jack. Model 5233 has one black and one blue jack.
MATERIAL: Brass.
FINISH: Bright tin plated.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max. (Model 5233, +220°C. (+428°F.) Max.)



MODEL	INSULATION	*STD COLORS	LIST
2269-*	Polycarbonate	-0 Black, -2 Red	2.25
5233-*	Polyphenylene Sulfide	-0 Black	3.35

TRIPLE BANANA JACK

Closed entry receptacle, 4.22 (.166) dia. x 23.37 (.920) deep. Mounts in panels from 1.60 (.063) to 9.53 (.375) thick. Nickel plated lockwasher and 1/4-32 hex nut. One black, one red and one green jack.
MATERIAL: Brass.
FINISH: Bright tin plated.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLOR:** -0 Black, -2 Red.



MODEL	LIST
4601-* (unassembled)	3.55

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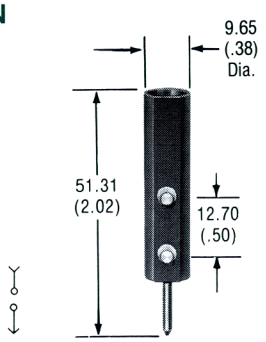
PIN TIP PLUG TWO TERMINAL ISOLATION

Pin tip jack is isolated from 2.03 (.080) pin tip plug. Provides for addtion of series components. Ideal for use with computer boards, lab circuit designs, etc. Bright tin plated solder turret terminals for permanent noise-free connections.
UPPER: Tip jack. Beryllium copper, gold plated. Accepts 2.03 (.080) dia. pin.
INSULATION: Polypropylene.
LOWER: Pin tip plug. Brass, nickel plated.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

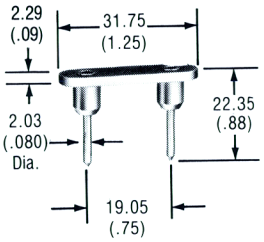


MODEL 1910-*

LIST 6.65

METAL SHORTING BAR

Used as connecting link with equipment having pin jacks.
MATERIAL: Brass.
FNISH: Nickel plated.
RATING: 5 Amps, +125°C. (+257°F.) Max. Resistance less than 1.5 milliohms.

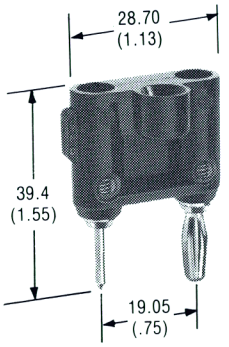


MODEL 2072

LIST 4.50

POLARIZED DOUBLE PLUG

This polarized double plug makes it virtually impossible to insert a mating jack incorrectly. Setscrews secure leads. (Used with Model 4967).
UPPER: Double banana jack. Brass, nickel plated.
INSULATION: ABS.
LOWER: Banana/Pin tip plug. Brass, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

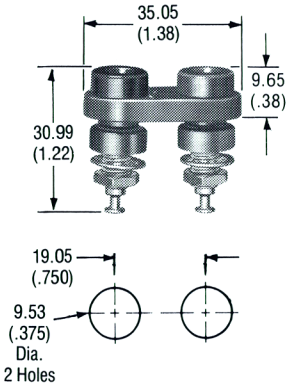


MODEL 4966-*

LIST 3.50

POLARIZED DOUBLE JACK

This polarized double jack is used with Model 4966. One side is a black pin jack and the other is a red banana jack. Mounts in panels 1.60 (.063) to 9.53 (.375) thick. Nickel plated 1/4-32 hex nut and lockwasher included.
MATERIAL: Banana jack, brass. Pin jack spring, beryllium copper.
FINISH: Banana/Pin jack, tin plated.
INSULATION: Polycarbonate.
RATING: 2500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLORS:** -0 Black, -2 Red.

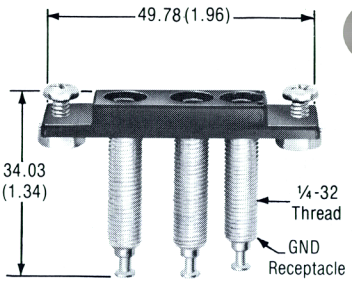


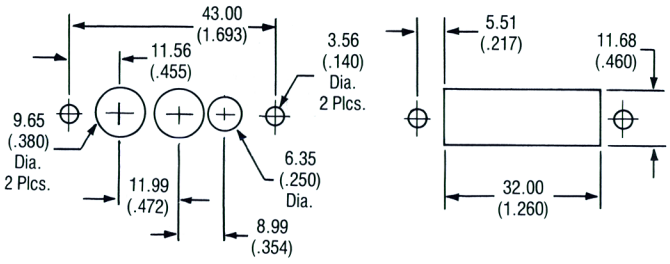
MODEL 4967-* (unassembled)

LIST 2.85

EXTRA DEEP TRIPLE BANANA JACK

Initial connection made with ground receptacle. Accepts 20.32 (.800) long banana plugs. Supplied with two 6-32 hex nuts and screws, unassembled.
MATERIAL: Brass.
FNISH: Bright tin plated.
INSULATION: Polycarbonate, black.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max.



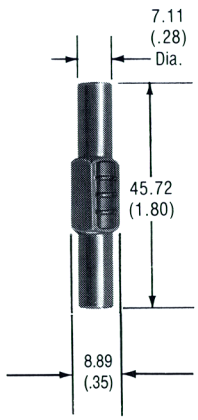


MODEL 4163-0

LIST 4.85

BANANA PLUG SPLICE FOR SHEATHED PLUGS

Provides rapid method for splicing single banana plug patch cords. Reduces the necessity of storing extra long patch cords. Molded thermoplastic body provides protective insulation. 4.22 (.166) dia. banana jack. This jack fits models 4912, 4913, 4933 & 4986. It will also accept any standard banana plug.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Polypropylene.
RATING: 1200 V AC/DC Max., 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

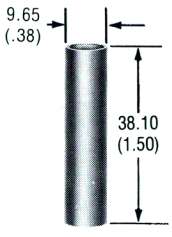


MODEL 4922-*

LIST 17.00 PKG
(Pkg. Ten Per Color)

SINGLE BANANA PLUG SPLICE

Provides rapid method for splicing single banana plug patch cords. Reduces the necessity of storing extra long patch cords. Molded thermoplastic body provides protective insulation. 4.22 (.166) dia. banana jack.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Polypropylene.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL 1829-*

LIST 12.50 PKG
(Pkg. Ten Per Color)

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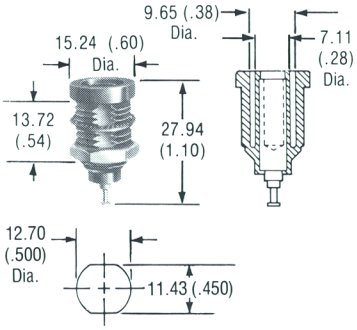
PANEL MOUNT BANANA JACK FOR SHEATHED PLUGS

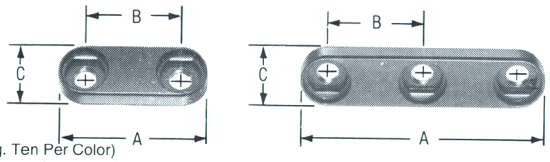
This banana jack fits models 4912, 4913, 4933 & 4986. It will also accept any standard banana plug. Nickel plated lockwasher and 1/2-28 nut included.
MATERIAL: Brass.
FINISH: Bright tin plated.
INSULATION: Polycarbonate.
RATING: 1200 V AC/DC Max., 15 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



MODEL **4921-*** (unassembled) — **LIST 2.25**

MOUNTING BASES

MATERIAL: Polycarbonate.
RATING: +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

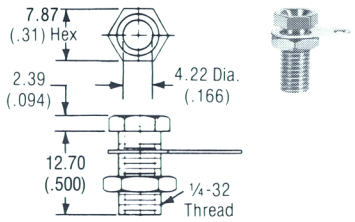


(Pkg. Ten Per Color)

MODEL	Type	A	B	C	Used With	LIST
3862-*	Double	30.21(1.19)	19.1(.750)	11.2(.44)	Binding Posts	4.50 Pkg
3863-*	Triple	49.3(1.94)	19.1(.750)	11.2(.44)		10.50 Pkg
4619-*	Double	22.1(.87)	12.7(.500)	9.6(.38)	Banana Jacks	4.00 Pkg
4614-*	Triple	35.1(1.38)	12.7(.500)	9.6(.38)		7.00 Pkg
4654-*	Double	35.1(1.38)	19.1(.750)	16.0(.63)		4.00 Pkg
4590-*	Triple	54.1(2.13)	19.1(.750)	16.0(.63)		9.00 Pkg

UNINSULATED BANANA JACK

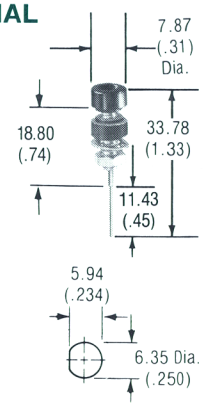
Threaded for rapid mounting. Used with standard banana plugs. Furnished with hex nut and solder lug.
MATERIAL: Banana jack and hex nut, brass. Solder lug, copper.
FINISH: Banana jack and hex nut, nickel plated. Solder lug, tin plated.
RATING: 5000 WVDC, 15 Amps.



MODEL **3267** (unassembled) — **LIST 7.50 PKG** (Ten Per Pkg.)

MINIATURE INSULATED BANANA JACK WITH WRAPPED WIRE TERMINAL

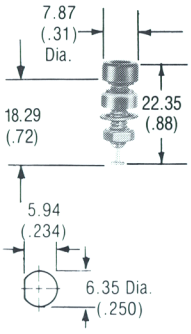
Excellent for rapid connection of wires using wrapped wire tools or machines. Closed entry 2.64 (.104) dia. jack. Mounts in panels up to 6.35 (.250) thick. Nickel plated 8-32 hex nut and lockwasher included.
UPPER: Miniature banana jack. Brass, nickel plated.
INSULATION: Polycarbonate.
LOWER: 0.64 (.025) Sq. Wrapped Wire Terminal. Phosphor bronze, gold plated.
RATING: 1500 WVDC, 3 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.



MODEL **4022-*** (unassembled) — **LIST 15.50 PKG** (Pkg. Ten Per Color)

MINIATURE INSULATED BANANA JACK

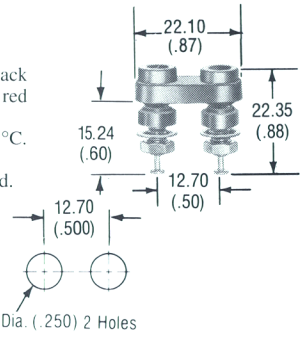
Closed entry 2.64 (.104) dia. jacks. Mounts in panels up to 6.35 (.250) thick. Nickel plated 8-32 hex nut and lockwasher included.
MATERIAL: Brass.
FINISH: Gold plated.
INSULATION: Polycarbonate.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



MODEL **2142-*** (unassembled) — **LIST 10.00 PKG** (Pkg. Ten Per Color)

MINIATURE INSULATED DOUBLE BANANA JACK

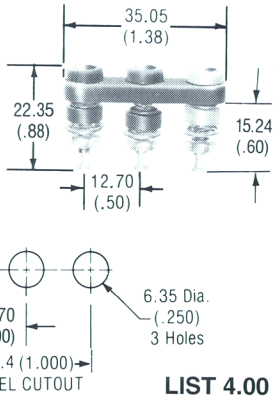
Closed entry 2.64 (.104) dia. jacks. Mounts in panels up to 4.77 (.188) thick. Nickel plated 8-32 hex nut and lockwasher included.
MATERIAL: Brass.
FINISH: Gold plated.
INSULATION: Polycarbonate. One black and one red jack. Choice of black or red mounting base.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLOR:** -0 Black, -2 Red.



MODEL **2143-*** (unassembled) — **LIST 2.75**

MINIATURE INSULATED TRIPLE BANANA JACK

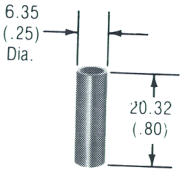
Closed entry 2.64 (.104) dia. jacks. Mounts in panels up to 4.77 (.188) thick. Nickel plated 8-32 hex nut and lockwasher included.
MATERIAL: Brass.
FINISH: Gold plated.
INSULATION: Polycarbonate. One red, one black and one green banana jack. Choice of black or red mounting base.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLOR:** -0 Black, -2 Red.



MODEL **4618-*** (unassembled) — **LIST 4.00**

MINIATURE BANANA PLUG SPLICE

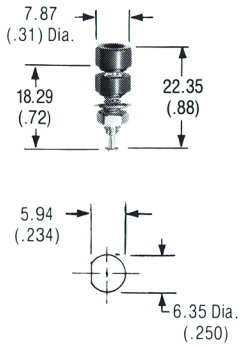
Permits splicing of single miniature banana plugs.
UPPER: Miniature banana jack. 2.64 (.104) dia., brass, nickel plated.
INSULATION: Polypropylene.
LOWER: Same as upper.
RATING: 1500 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **3833-*** — **LIST 17.00 PKG** (Pkg. Ten Per Color)

PIN JACK

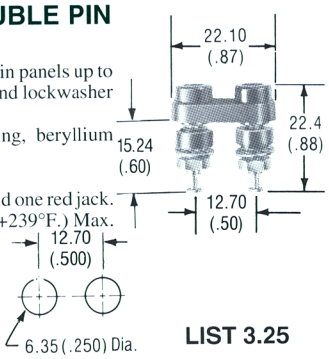
Closed entry 2.03 (.080) pin jack. Mounts in panels up to 6.35 (.250) thick. Nickel plated 8-32 hex nut and lockwasher included.
MATERIAL: Pin jack body, brass. Spring, beryllium copper.
FINISH: Pin jack, gold plated.
INSULATION: Polycarbonate.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



MODEL			LIST
3542-*	(unassembled)	(Pkg. Ten Per Color)	LIST 12.00 PKG

MINIATURE INSULATED DOUBLE PIN JACKS 2.03 (.080) DIA.

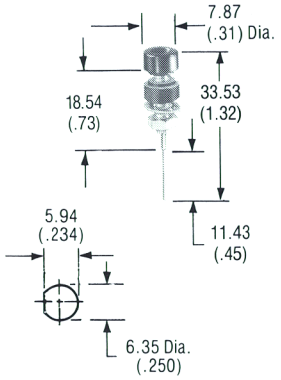
Closed entry 2.03 (.080) dia. pin jack. Mounts in panels up to 4.77 (.188) thick. Nickel plated 8-32 hex nut and lockwasher included.
MATERIAL: Pin jack body, brass. Spring, beryllium copper.
FINISH: Pin jack, gold plated.
INSULATION: Polycarbonate. One black and one red jack.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLORS:** -0 Black, -2 Red.



MODEL		LIST
4543-*	(unassembled)	LIST 3.25

INSULATED PIN JACK WITH WRAPPED WIRE TERMINAL

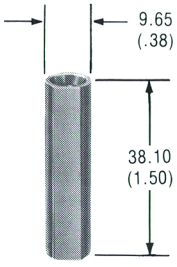
Closed entry 2.03 (.080) dia. pin jack. Mounts in panels to 6.35 (.250) thick. Nickel plated 8-32 hex nut and lockwasher included.
UPPER: Pin jack. Body, brass, nickel plated. Spring, beryllium copper, gold plated.
INSULATION: Polycarbonate.
LOWER: 0.64 (.025) sq. pin wrapped wire terminal, phosphor bronze, gold plated.
RATING: 1500 WVDC, 3 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.



MODEL		LIST
4773-*	(unassembled)	LIST 2.00

STANDARD BANANA PLUG TO 2.03 (.080) DIA. PIN TIP PLUG SPLICE

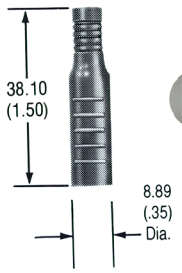
This splice accepts a standard banana plug on one end and a 2.03 (.080) pin tip plug on the other end.
UPPER: Standard banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: Polypropylene.
LOWER: Pin jack. Spring, beryllium copper, gold plated, accepts 2.03 (.080) dia. pin.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
3834-*	LIST 2.00

DO-IT-YOURSELF IN-LINE PIN JACK WITH FLEXIBLE BOOT

This in-line 2.03 (.080) dia. pin jack is ideal for making patch cords and field repairs. A snap-on two piece design allows the wire to be crimped or soldered to the pin jack.
MATERIAL: Pin jack body, brass. Spring, beryllium copper.
FINISH: Pin jack body, nickel plated. Spring, gold plated.
INSULATION: Flexible PVC.
RATING (Independent of Wire): 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black,-2 Red.



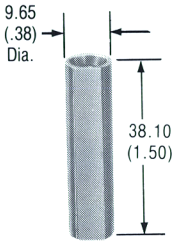
**Max. wire dia. 3.94 (.155)

MODEL	Accepts Wire AWG**	LIST
5171-*	22, 20, 18	14.50†
5172-*	16, 14	1.80

†(Pkg. Ten Per Color) (unassembled)

PIN TIP PLUG SPLICE

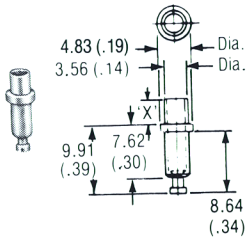
Permits splicing of 2.03 (.080) dia. pin tip patch cords.
UPPER: Pin jack. Body, brass, nickel plated. Spring, beryllium copper, gold plated.
INSULATION: Polypropylene.
LOWER: Same as upper.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	LIST
3832-*	LIST 2.85

MINIATURE RIVET TYPE BANANA JACK WITH TURRET

Excellent for riveting to panels or boards. Solder turret for rapid attachment of wires.
MATERIAL: Miniature banana jack. 2.64 (.104) dia., tellurium copper.
FINISH: Gold plated.
RATING: 1500 WVDC, 5 Amps.



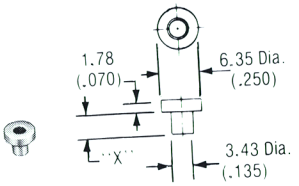
Swage tool information furnished on request.

MODEL	"X" Dim.	Panel	LIST
3277	2.67 (.105)	1.57 (.062)	6.00 PKG
3278	3.43 (.135)	2.37 (.093)	7.00 PKG
3279	4.19 (.165)	3.18 (.125)	6.00 PKG

(Ten Per Pkg.)

MINIATURE RIVET TYPE BANANA JACK

Excellent for riveting to panels or boards.
MATERIAL: Miniature banana jack. 2.64 (.104) dia., leaded copper.
FINISH: Gold plated.
RATING: 1500 WVDC, 5 Amps.



Swage tool information furnished on request.

MODEL	"X" Dim.	Panel	LIST
3280	2.67 (.105)	1.57 (.062)	4.50 PKG
3281	3.43 (.135)	2.37 (.093)	6.50 PKG
3282	4.19 (.165)	3.18 (.125)	5.50 PKG

(Ten Per Pkg.)

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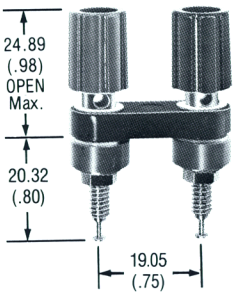
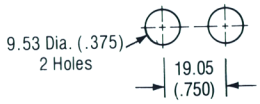
DOUBLE BINDING POST ASSEMBLY

Nickel plated 8-32 hex nut and lockwasher included. One red and one black tin plated binding post (Type 3760) with double mounting base.
MATERIAL: Double binding post with captive thumb nut, brass. Accepts standard banana plug.
FINISH: Bright tin plated.
INSULATION: Polycarbonate.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLORS:** -0 Black, -2 Red.

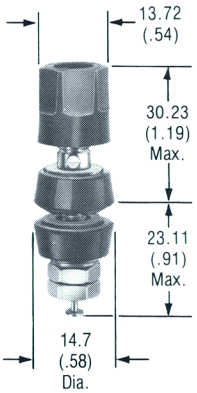


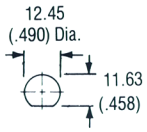


MODEL		LIST
4243-*	(unassembled)	4.30

HEX HEAD BINDING POST

Designed to meet all the requirements of MIL-P-55149/1A. Gold plated 10-32 hex nuts and lockwashers included. 2.54 (.100) dia. cross hole is perpendicular with flat on insulator. Mounts in panels up to 6.35 (.250) thick. Accepts standard banana plug.
MATERIAL: Binding post body with captive thumb nut, brass.
FINISH: Gold plated.
INSULATION: Nylon per MIL-P-20693, Type IV.
RATING: 1500 VRMS, 30 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.

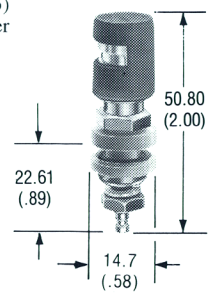


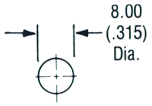


MODEL		LIST
5018-*		7.00

BINDING POST PER MIL-P-55149/8

Spring-loaded insulated binding post that meets the requirements of MIL-P-55149/8 (U106/U). Silicone rubber O-rings provide water resistant seal when mounted in panels from 1.57 (.062) to 3.18 (.125) thick. Nickel plated 10-32 hex nut and lockwasher included.
MATERIAL: Brass.
FINISH: Nickel plated.



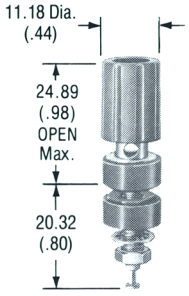


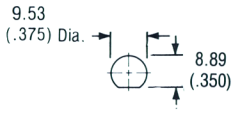
MODEL	Boot Color	Military No.		LIST
4995-0	Black	PB08NA01	(unassembled)	12.25
4995-2	Red	PB08NA02		

STANDARD BINDING POST

Accepts standard banana plug. Thin line design for high-density packaging. Nickel plated 8-32 hex nut and lockwasher included. 2.54 (.100) dia. cross hole is perpendicular with flat on insulator. Mounts in panels 1.57 (.062) to 6.35 (.250) thick.
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max. (Model 4901, +220°C. (+428°F.) Max.)

See Low Cost Binding Post (**Model 5932**), page 55.

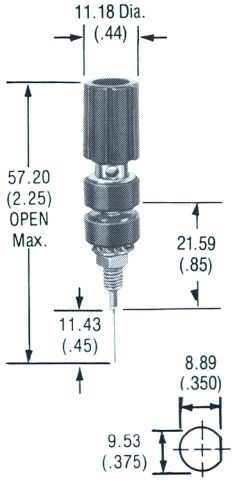




MODEL	MATERIAL	INSULATION	*STD COLORS	LIST
3750-*	Brass, gold plated	Polycarbonate	-0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White	3.20
3760-*	Brass, bright tin plated			2.20
3770-*	Tellurium copper, gold plated			4.45
4901-*	Brass, bright tin plated	Polyphenylene Sulfide	-0 Black, -6 Blue	2.70

STANDARD BINDING POST WITH WRAPPED WIRE TERMINAL

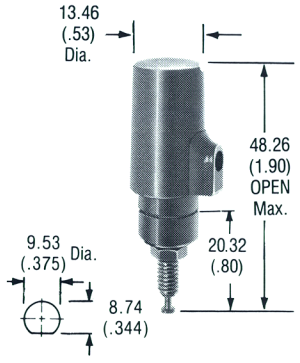
Excellent for rapid connection of wires using wire-wrapping tools or machines. Accepts standard banana plug. Thin line design for high density packaging. 8-32 hex nut and lockwasher included. 2.54 (.100) dia. cross hole is perpendicular with flat on insulator. Mounts in panels 1.57 (.062) to 6.35 (.250) thick.
UPPER: Binding post with captive thumb nut. Brass, nickel plated..
INSULATION: Polycarbonate.
LOWER: 0.63 (.025) sq. pin wrapped wire teminal. Phosphor bronze, gold plated.
RATING: 2500 WVDC, 3 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -9 White.



MODEL		LIST
4098-*	(unassembled)	3.60

FULLY INSULATED SPRING-LOADED BINDING POST

Spring-loaded insulated binding post allows fast and simple attachment of wires or plugs up to 2.16 (.085) dia. with insulation up to 4.06 (.160) dia. Nickel plated 8-32 hex nut and lockwasher included. Mounts in panels 1.57 (.062) to 9.53 (.375) thick.
MATERIAL: Brass.
FINISH: Bright tin plated.
INSULATION: Polycarbonate.
RATING: 630 V Peak, 15 Amps, +115°C. (+239°C.) Max.
***STD COLORS:** -0 Black, -2 Red, -4 Yellow, -5 Green, -6 Blue, -9 White.



MODEL		LIST
4770-*	(unassembled)	7.15

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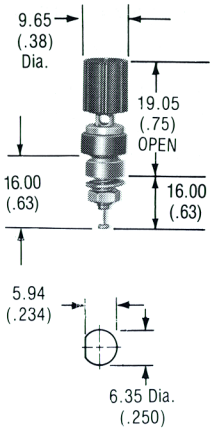
MINIATURE BINDING POST

Accepts miniature banana plug. #8-32 hex nut and lockwasher included. 2.18 (.086) dia. cross hole is perpendicular with flat on insulator. Mounts in panels up to 4.77 (.188) thick.
MATERIAL: Binding post body, captive thumb nut and hex nut, brass. Lockwasher, steel.
FINISH: Binding post with one captive thumb nut, gold or bright tin plated. Hex nut and lockwasher, nickel plated.
INSULATION: Polycarbonate.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

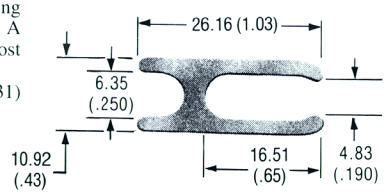


MODEL	Finish	LIST
2382-*	Gold Plated	3.40
2439-*	Tin Plated	2.60

(unassembled)

SHORTING LINK FOR STANDARD BINDING POSTS

Shorting link for standard binding posts on 19.05 (.750) centers. A snap-on feature holds link on post when short not needed.
MATERIAL: Brass, 0.79 (.031) thick.
FINISH: Nickel plated.
RATING: 15 Amps.

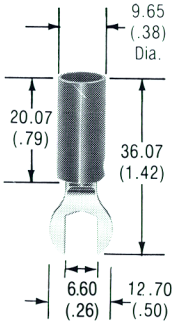


MODEL
4115

LIST 6.00 PKG
(Ten Per Pkg.)

INSULATED SPADE LUG

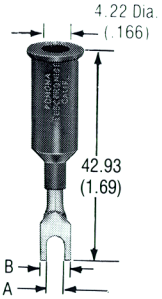
UPPER: Model 4769, pin jack. Spring, beryllium copper, gold plated. Model 1614, banana jack, brass, nickel plated.
INSULATION: ABS.
LOWER: 1.52 (.060) thick spade lug, brass, nickel plated.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL	Upper	LIST
4769	Pin Jack	2.55
1614	Banana Jack	1.70

INSULATED BARRIER STRIP SPADE LUG TO BANANA JACK

Permits single banana plug to be used with equipment having barrier strips. Lugs fit a No. 4, 5, 6, 8 or 10 screw (see listing).
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: 0.76 (.03) thick spade lug (see listing). Copper, electro-tin plated.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

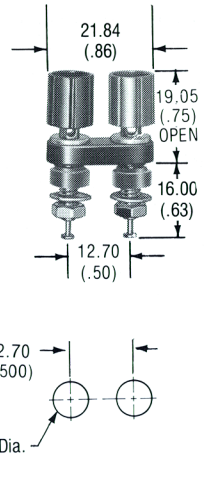


MODEL	Lug Size	Dim. A	Dim. B
3744-*	4, 5 & 6	3.81 (.15)	6.10 (.24)
3777-*	8 & 10	4.83 (.19)	7.62 (.30)

LIST 2.75

MINIATURE INSULATED DOUBLE BINDING POST

Accepts miniature banana plug. 8-32 hex nut and lockwasher included. 2.18 (.086) dia. cross hole is perpendicular with flat on insulator. Mounts in panels 4.77 (.188) thick.
MATERIAL: Miniature double binding post body, captive thumb nut and hex nut, brass. Lockwasher, steel. Polycarbonate insulation. One red and one black.
FINISH: Miniature binding post body and captive thumb nut, gold or bright tin plated. Lockwasher and hex nut, nickel plated.
RATING: 1500 WVDC, 5 Amps, +115°C. (+239°F.) Max.
***MTG BASE COLOR:** -0 Black, -2 Red.

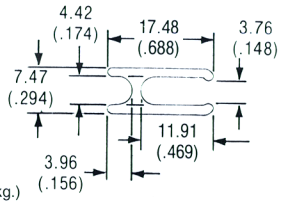


MODEL	Finish	LIST
2383-*	Gold Plated	6.85
2440-*	Tin Plated	5.30

(unassembled)

SHORTING LINK FOR MINIATURE BINDING POSTS

Shorting link for miniature binding posts on 12.70 (.500) centers. A snap-on feature holds link on posts when short not needed.
MATERIAL: Brass, 0.79 (.031) thick.
FINISH: Nickel or gold plated.
RATING: 5 Amps.

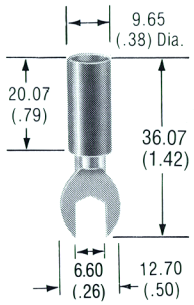


MODEL	Finish	LIST
3478	Gold Plated	2.25 EA
3479	Nickel Plated	17.00 Pkg†

†(Ten Per Pkg.)

LOW THERMAL EMF TELLURIUM COPPER INSULATED SPADE LUG

Provides precision measurement when attaching banana plug to equipment with binding posts.
UPPER: Banana jack, tellurium copper, gold plated. Accepts standard banana plug.
INSULATION: ABS, one black and one red.
LOWER: 2.03 (.080) thick spade lug, tellurium copper, gold plated.
RATING: 5000 WVDC, 15 Amps, +50°C. (+122°F.) Max.

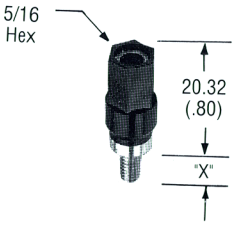


MODEL
2305

LIST 9.75 KIT
(Kit contains 1 Red & 1 Black)

TERMINAL STRIP BANANA JACK ADAPTER

This adapter provides a banana jack connection by replacing the screw in a terminal screw. Secure connections can be made with standard banana plug patch cords without breaking the connection to the terminal strip.
MATERIAL: Banana Jack 4.22 (.166) dia., brass.
FINISH: Nickel plated.
INSULATION: Nylon.
***STD COLORS:** -0 Black, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -9 White.



MODEL	Thread	VRMS	Torque in / lb	"X"	LIST
5699-*	6-32	1100	7	6.4 (.25)	2.75
5700-*	8-32	1600	16	8.1 (.32)	2.75
5701-*	10-32	1700	25	8.1 (.32)	2.75
5761-*	6-32	1100	7	12.7 (.50)	2.85
5762-*	8-32	1600	16	12.7 (.50)	2.85
5763-*	10-32	1700	25	12.7 (.50)	2.85

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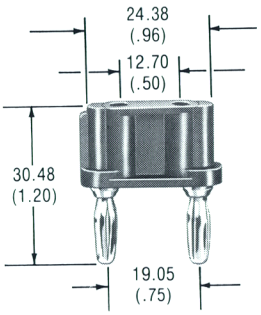
MINIATURE DOUBLE BANANA JACK TO STANDARD DOUBLE BANANA PLUG

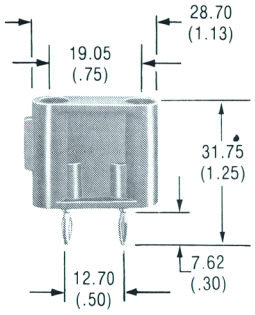
Permits miniature double banana plug on 12.70 (.500) centers to be used with equipment having standard double banana jacks on 19.05 (.750) centers.
UPPER: Miniature double banana jack. 2.64 (.104) dia. brass, nickel plated.
INSULATION: ABS, black.
LOWER: Standard double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.



MODEL **2943** — LIST 9.80

STANDARD DOUBLE BANANA JACK TO MINIATURE DOUBLE BANANA PLUG

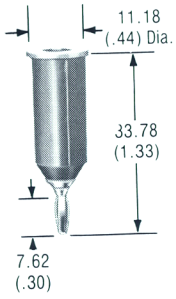
Permits standard double banana plug on 19.05 (.750) centers to be used with equipment having miniature double jacks on 12.70 (.500) centers.
UPPER: Standard double banana jack. 4.22 (.166) dia. brass, nickel plated.
INSULATION: ABS, black.
LOWER: Miniature double banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits miniature 2.64 (.104) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.



MODEL **2952** — LIST 6.25

STANDARD BANANA JACK TO MINIATURE BANANA PLUG

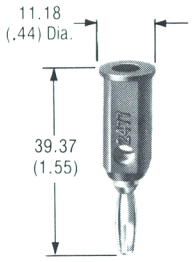
Permits standard banana plug to be used with equipment having miniature banana jacks.
UPPER: Standard banana jack. 4.22 (.166) dia. brass, nickel plated.
INSULATION: ABS.
LOWER: Miniature banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits miniature 2.64 (.104) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **2138-*** — LIST 16.50 PKG (Pkg. Ten Per Color)

MINIATURE BANANA JACK TO STANDARD BANANA PLUG

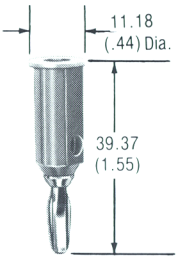
Permits miniature banana plug to be used with equipment having standard banana jacks.
UPPER: Miniature banana jack. 2.64 (.104) dia. brass, nickel plated.
INSULATION: ABS.
LOWER: Standard banana plug. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **2477-*** — LIST 15.00 PKG (Pkg. Ten Per Color)

PIN JACK TO BANANA PLUG

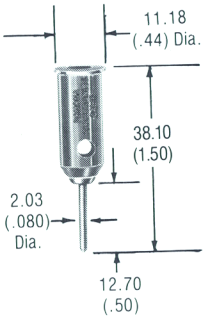
Permits pin tip cords to be used with equipment having banana jacks.
UPPER: Pin jack. Spring, beryllium copper, gold plated. Accepts 2.03 (.080) dia. pin.
INSULATION: ABS.
LOWER: Banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **1809-*** — LIST 17.00 PKG (Pkg. Ten Per Color)

BANANA JACK TO PIN TIP PLUG

Permits standard banana plug patch cords to be used with equipment having pin jacks. Cross hole 4.22 (.166) dia. provides side stackup connection.
UPPER: Banana jack. 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS.
LOWER: Pin tip plug. Brass, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

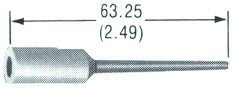


MODEL **1432-*** — LIST 9.00 PKG (Pkg. Ten Per Color)

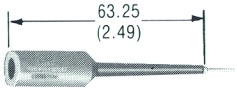
CONNECTOR TEST ADAPTERS

An ideal test adapter for rapid testing of the hard-to-get at contacts of multipin/socket rack or panel connectors. Flexible tip allows testing of adjacent contacts. Flexibility and full insulation protects against shorting or contact damage. The model 4690 also fits .635 (.025) sq. pins.
UPPER: Banana jack. 4.22 (.166) dia. brass, nickel plated.
INSULATION: Polyvinyl chloride (PVC).
LOWER: Socket type, copper. Pin type, brass. Gold plated. See tab block.
RATING: 2500 WVDC, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

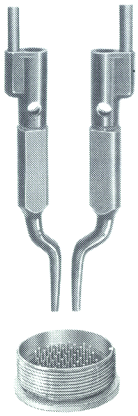
MODEL	Contact Size		Type	Current Rating	LIST
4690-*	22		Socket	5 Amps	3.60
4691-*		.762 (.030) dia.	Pin		2.75
3560-*	20		Socket	7.5 Amps	2.75
3561-*		1.02 (.040) dia.	Pin		3.00
3562-*	16		Socket	13 Amps	3.00
3563-*		1.60 (.063) dia.	Pin		2.60
3564-*	12		Socket	23 Amps	4.85
3565-*		2.36 (.093) dia.	Pin		2.60



3562
SOCKET TYPE



3561
PIN TYPE



TYPICAL APPLICATION

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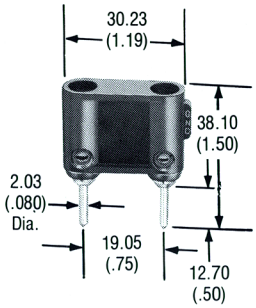
BANANA JACKS TO DOUBLE PIN TIP PLUG WITH SETSCREWS

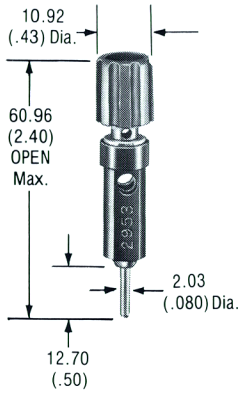
Permits single or double banana plugs to be used in equipment having tip jacks. Features recess for component mounting. Internal setscrews firmly secure wire leads.
UPPER: Double banana jack 4.22 (.166) dia., brass, nickel plated.
INSULATION: ABS, black.
LOWER: Double pin tip plug. Brass, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.



MODEL	LIST
1858	3.45

BINDING POST TO SINGLE PIN TIP PLUG

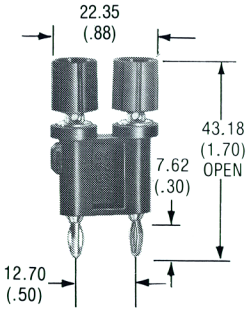
Center cross hole 4.22 (.166) dia. in body provides side stackup connection.
UPPER: Binding post with captive thumb nut, brass, nickel plated. Polycarbonate insulation. Accepts standard banana plug.
INSULATION: ABS, black.
LOWER: Pin tip plug. Brass, nickel plated.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***BINDING POST COLORS:** -0 Black, -2 Red.



MODEL	LIST
2953-*	5.10

MINIATURE BINDING POSTS TO MINIATURE DOUBLE BANANA PLUG

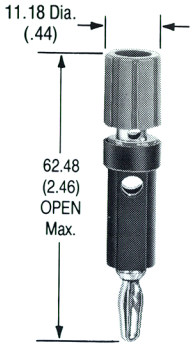
This adapter converts miniature banana jacks to miniature binding posts.
UPPER: Miniature double binding post body with captive thumb nut. Brass, gold plated. Polycarbonate insulation. One black and one red. Accepts miniature banana plugs.
INSULATION: ABS, black.
LOWER: Miniature double banana plug. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jacks.
RATING: 2500 WVDC, 5 Amps, +50°C. (+122°F.) Max.



MODEL	LIST
3822	10.35

BINDING POST TO SINGLE BANANA PLUG

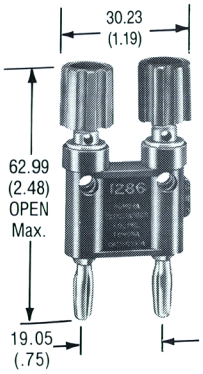
Features insulated binding post for rapid mounting and interchangeability of components. Center cross hole 4.22 (.166) dia. provides side stackup connection.
UPPER: Binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plug.
INSULATION: ABS, black.
LOWER: Single banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 15 Amps, +50°C. (+122°F.) Max.
***BINDING POST COLORS:** -0 Black, -2 Red.



MODEL	LIST
2894-*	3.70

BINDING POSTS TO DOUBLE BANANA PLUG

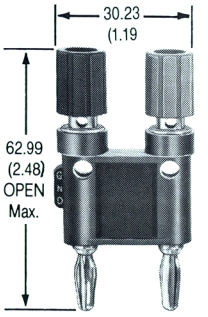
Features insulated binding posts on 19.05 (.750) centers for rapid mounting and interchangeability of components. Center cross hole 4.22 (.166) dia. provides side stackup connection.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plug. Insulation, polycarbonate. One black and one red.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 15 Amps, +50°C. (+122°F.) Max.



MODEL	LIST
1286	6.80

BINDING POSTS TO DOUBLE BANANA PLUG GOLD PLATED

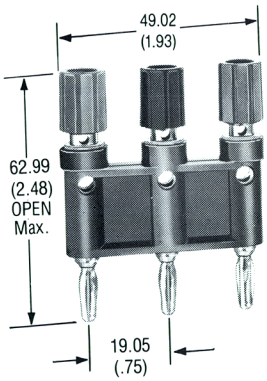
Similar to Model 1286 (above) except gold plated.
UPPER: Double binding post. Gold plated brass body with captive thumb nut. Accepts standard banana plug. Insulation, polycarbonate. One black and one red.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllim copper, gold plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 15 Amps, +50°C. (+122°F.) Max.



MODEL	LIST
5405	9.60

BINDING POST TO TRIPLE BANANA PLUG

Features insulated binding posts on 19.05 (.750) centers for rapid mounting and interchangeability of components. Center cross holes 4.22 (.166) dia. provide side stackup connection.
UPPER: Triple binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plug. Insulation, polycarbonate. Red, black (center), green.
INSULATION: ABS, black.
LOWER: Triple banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jacks.
RATING: 2500 WVDC, 15 Amps, +50°C. (+122°F.) Max.



MODEL	LIST
3405	13.50

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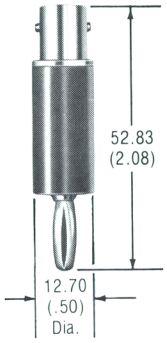
BNC FEMALE TO SINGLE STANDARD BANANA PLUG

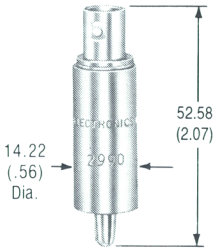
Permits BNC male to be used with equipment having banana jacks. Inner conductor connected only. Excellent for adapting laboratory VTVM, oscilloscopes and signal generator inputs to readily available coaxial cables.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) banana jack.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1894** — LIST 5.70

BNC FEMALE TO SHIELDED BANANA PLUG

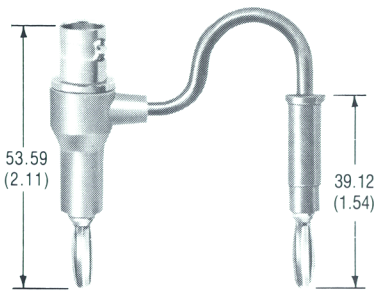
Permits BNC male to be used with equipment having banana jacks or binding posts. All metal construction for proper shielding.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: Shielded banana plug. Body, brass. Spring, one piece heat treated beryllium copper. Nickel plated. Fits standard 4.22 (.166) banana jack. Shield, brass, nickel plated.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL **2990** — LIST 10.20

BNC FEMALE TO SINGLE BANANA PLUG WITH GROUND LEAD

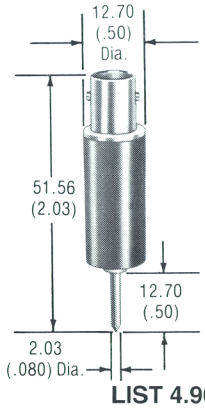
Permits BNC male to be used with equipment having standard banana jacks. Allows the ground jack to be located up to 63.50 (2.50) away from the output/input jack.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: Polypropylene, red.
LOWER: Banana plug. Body, brass. Spring,one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) banana jacks. Ground, 18 AWG wire with single banana plug. Polypropylene insulation, black.
RATING: 500 VRMS Max., +55°C. (+131°F.) Max.



MODEL **4684** — LIST 9.70

BNC FEMALE TO SINGLE PIN TIP PLUG

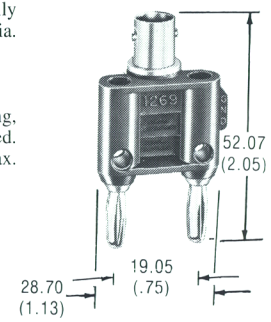
Permits BNC male to be used with equipment having 2.03 (.080) dia. pin tip jacks. Inner conductor connected only. Excellent for adapting laboratory VTVM, oscilloscopes and generator inputs to readily available coaxial cables.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Pin tip plug. Brass, nickel plated.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **3415** — LIST 4.90

BNC FEMALE TO DOUBLE BANANA PLUG

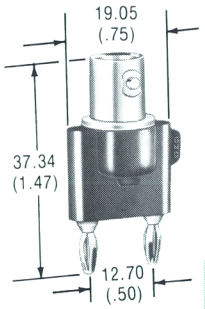
Permits BNC male to be used with equipment having banana jacks. Excellent for adapting laboratory VTVM, oscilloscopes and signal generator inputs to readily available coaxial cables. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1269** — LIST 5.15

BNC FEMALE TO MINIATURE DOUBLE BANANA PLUG

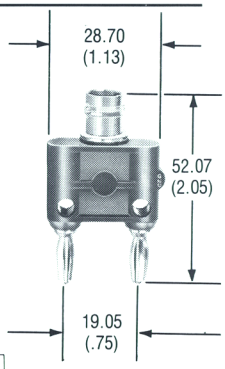
Allows a BNC male to be used with equipment having 12.70 (.500) spaced miniature 2.64 (.104) dia. banana jacks. Excellent for adapting test equipment to standard coaxial cables.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Miniature double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, gold plated. Fits miniature 2.64 (.104) dia. banana jack.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **3269** — LIST 9.10

SIGNAL ISOLATOR - BNC FEMALE TO DOUBLE BANANA PLUG

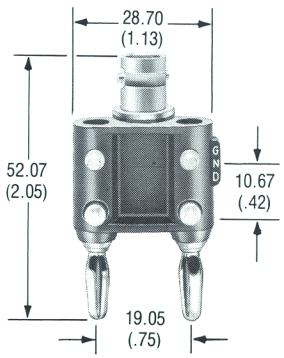
Permits BNC male connector to be used with equipment having banana jacks. General purpose ceramic capacitor molded internally. Rated @ .01 pf ± 20%, 200 W VDC. Insulation resistance 10,000 megohms min. Ideal for isolating DC signals from VTVM inputs and signal generator outputs. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, blue.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated.
RATING: 200 WVDC, +50°C. (+122°F.) Max.



MODEL **1868** — Note: Can not pass continuity test due to capacitor. — LIST 14.50

ADAPTER - BNC FEMALE TO DOUBLE BANANA PLUG- FOUR TERMINAL ISOLATION

Permits BNC male to be used with equipment having banana jacks. Provides isolation for a four terminal network. Excellent for matching pad networks. Bright tin plated solder turret terminals for permanent noise-free connections.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: Polypropylene, black.
LOWER: Double banana plug. Body, brass. Spring,one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 500 VRMS Max., +55°C. (+131°F.) Max.



MODEL **1468** — LIST 16.80

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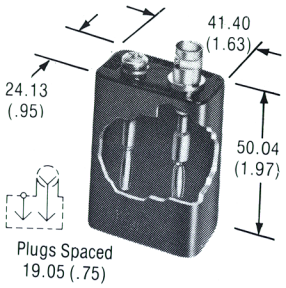
BNC FEMALE TO SHIELDED DOUBLE BANANA PLUG

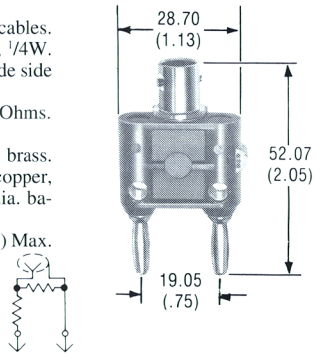
Permits BNC male to be used with equipment having banana jack binding posts. Black anodized aluminum shield.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack. Shielded can, aluminum, black anodized.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL	LIST
1645	16.75

BNC MATCHING PAD

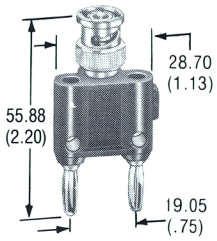
Adapts 600 Ohm sources to 50 or 75 Ohm cables. Molded in deposited carbon resistors 1%, 1/4W. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 300 WVDC, +50°C. (+122°F.) Max.



MODEL	Color	Match in Ohms	LIST
1656-1	Yellow	600 to 50	23.25
1656-2	Red	600 to 75	

BNC MALE TO DOUBLE BANANA PLUG

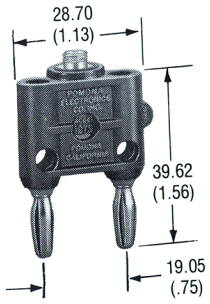
Permits BNC female to be used with equipment having banana jacks. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: BNC male. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: Operating Voltage: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL	LIST
1270	8.05

MICRODOT RECEPTACLE TO DOUBLE BANANA PLUG

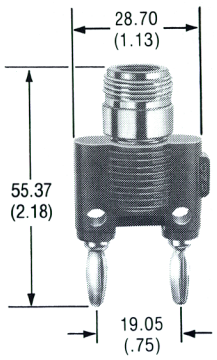
Permits Microdot miniature coaxial plug to be used with equipment having banana jacks. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Microdot receptacle, 50 Ohms, 10-32 thread.
INSULATION: ABS, green.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 750 VRMS Max., +50°C. (+122°F.) Max.



MODEL	LIST
1275	32.60

TYPE "N" FEMALE TO DOUBLE BANANA PLUG

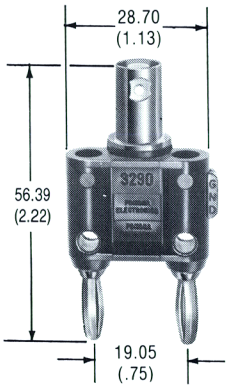
Permits Type "N" male to be used with equipment having banana jacks. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Type "N" female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 1000 VRMS Max., +50°C. (+122°F.) Max.



MODEL	LIST
1740	22.10

MHV FEMALE TO DOUBLE BANANA PLUG

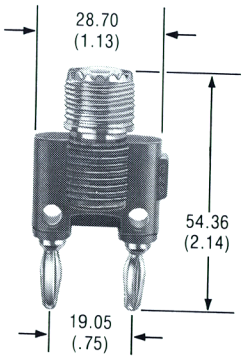
This adapter allows an MHV male to be used with equipment having 19.05 (.750) spaced banana jacks. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: MHV female.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 5000 V Peak, +50°C. (+122°F.) Max.



MODEL	LIST
3290	25.20

UHF FEMALE TO DOUBLE BANANA PLUG

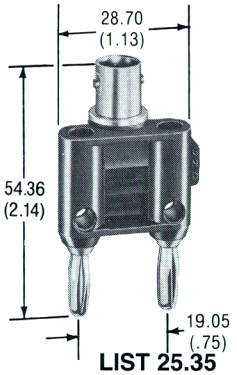
Permits UHF male to be used with equipment having banana jacks. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: UHF female. Impedance: Non-constant.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL	LIST
1707	24.30

TWINAX FEMALE TO DOUBLE BANANA PLUG

This adapter allows a twinax male to be used with equipment having 19.05 (.750) spaced banana jacks.
UPPER: Twinax female.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) dia. banana jack.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL	LIST
4930	25.35

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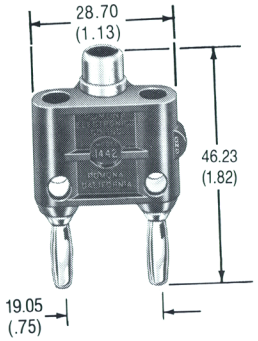
PHONO JACK TO DOUBLE BANANA PLUG

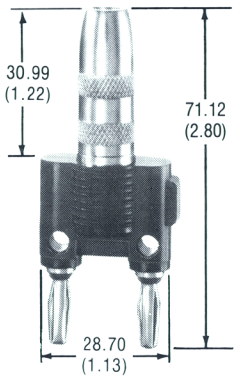
Permits phono plug to be used with equipment having banana jacks or binding posts. Cross holes 4.22 (.166) in body provide side stackup connections.
UPPER: Phono jack.
INSULATION: Polystyrene, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) banana jack.
RATING: 500 WVDC, +50°C. (+122°F.) Max.



MODEL **1442** — LIST 10.30

PHONE JACK TO DOUBLE BANANA PLUG

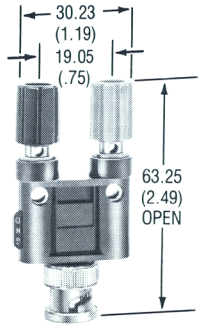
Permits a standard 2 conductor 6.35 (.250) dia. phone plug to be used with equipment having banana jacks or binding posts. Cross holes 4.22 (.166) in body provide side stackup connections.
UPPER: Phone jack. Accepts standard 6.35 (.250) dia. phone plug.
INSULATION: ABS, black.
LOWER: Double banana plug. Body, brass. Spring, one piece heat treated beryllium copper, nickel plated. Fits standard 4.22 (.166) banana jack.
RATING: 500 VRMS, +50°C. (+122°F.) Max.



MODEL **4044** — LIST 15.15

STANDARD DOUBLE BINDING POSTS TO BNC MALE

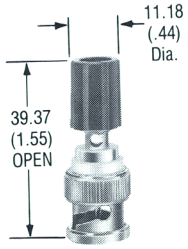
Permits single or double banana plugs to be used with equipment having a BNC female.
UPPER: Double binding post with captive thumb nut. Brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS, +50°C. (+122°F.) Max.



MODEL **1296** — LIST 9.60

SINGLE BINDING POST TO BNC MALE

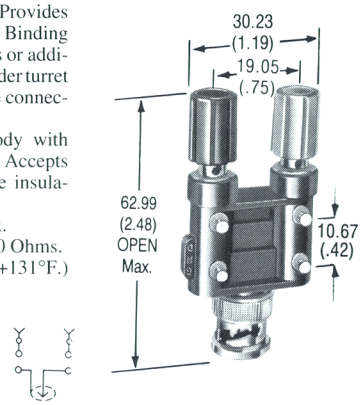
Permits single banana plug to be used with equipment having a BNC female.
UPPER: Binding post with captive thumb nut. Brass, nickel plated. Accepts standard banana plugs.
INSULATION: Polycarbonate.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS, +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL **3430-*** — LIST 4.80

ADAPTER - BINDING POSTS TO BNC MALE FOUR TERMINAL ISOLATION

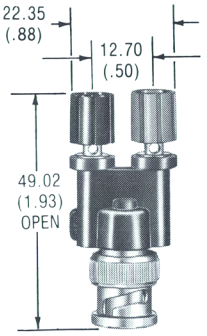
Permits single or double banana plugs to be used with equipment having BNC female. Provides isolation for a four terminal network. Binding posts facilitate connections of test leads or additional components. Bright tin plated solder turret terminals provide permanent noise-free connections.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: Polypropylene, black.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +55°C. (+131°F.) Max.



MODEL **1469** — LIST 21.30

MINIATURE BINDING POSTS TO BNC MALE

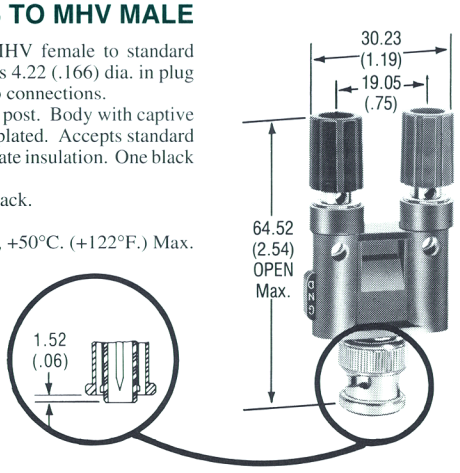
Converts a BNC female to miniature 12.70 (.500) spaced binding posts.
UPPER: Miniature double binding post. Body with captive thumb nut, brass, gold plated. Accepts miniature banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **3296** — LIST 17.20

BINDING POSTS TO MHV MALE

This adapter converts MHV female to standard binding posts. Cross holes 4.22 (.166) dia. in plug body provide side stackup connections.
UPPER: Double binding post. Body with captive thumb nut. Brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: MHV male.
RATING: 5000 V Peak, +50°C. (+122°F.) Max.



MODEL **3291** — LIST 29.50

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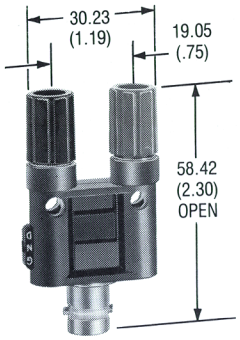
BINDING POSTS TO BNC FEMALE

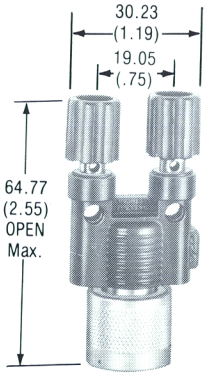
Permits single or double banana plugs to be used with equipment having a BNC male. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: BNC female. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1452** — **LIST 8.05**

BINDING POSTS TO TYPE "N" MALE

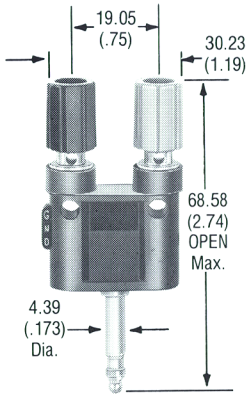
Permits single or double banana plugs to be used with equipment having Type "N" female. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: Type "N" male. Impedance: 50 Ohms.
RATING: 1000 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1796** — **LIST 24.20**

BINDING POSTS TO MINIATURE PHONE PLUG

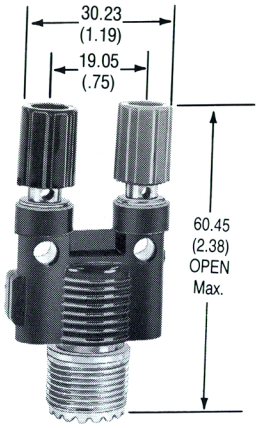
Permits single or double banana plugs to be used with equipment having three circuit phone jacks. Tip connected to hot side of adapter and ring connected to ground side. Sleeve, no connection.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: Miniature phone plug.
RATING: 500 V Peak, +50°C. (+122°F.) Max.



MODEL **5001** — **LIST 17.20**

BINDING POSTS TO UHF FEMALE

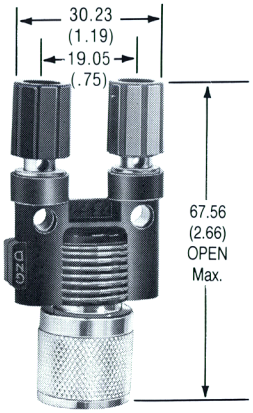
Permits single or double banana plugs to be used with equipment having a UHF male. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: UHF female. Impedance: Non-constant.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1792** — **LIST 25.05**

BINDING POSTS TO UHF MALE

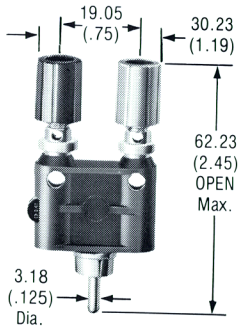
Permits single or double banana plugs to be used with equipment having a UHF female. Cross holes 4.22 (.166) dia. in body provide side stackup connections.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: UHF male. Impedance: Non-constant.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.



MODEL **1699** — **LIST 16.10**

BINDING POSTS TO PHONO PLUG

Permits single or double banana plugs to be used with equipment having a phono jack. Ideal for banana plug stackups or patch cords.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: RCA phono plug.
RATING: 500 WVDC, +50°C. (+122°F.) Max.



MODEL **4729** — **LIST 14.20**

BNC / BANANA / BINDING POST ADAPTER KIT

Kit contains one each:

1269	BNC Female to Double Banana Plug
1270	BNC Male to Double Banana Plug
1296	BNC Male to Double Binding Post
1452	BNC Female to Double Binding Post
3283	BNC Female to Female
3533	BNC Male to Male

MODEL **5510** — **LIST 37.75**

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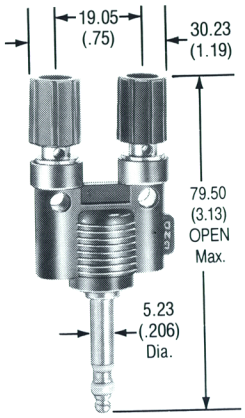
BINDING POSTS TO PJ-068/WE-309 PHONE PLUG

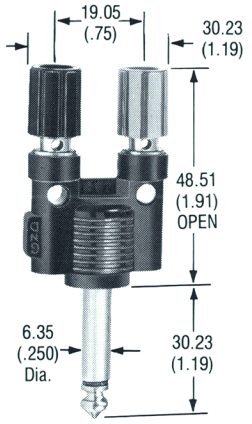
Permits single or double banana plug to be used with equipment having three circuit phone jacks. Tip connected to red post, ring to black. Sleeve, no connection. Cross holes 4.22 (.166) dia. in plug body provide side stackup.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: Phone plug, PJ-068 (equivalent to WE-309).
RATING: 500 V Peak, 50°C. (+122°F.) Max.



MODEL **3365** — **LIST 29.80**

BINDING POSTS TO PHONE PLUG

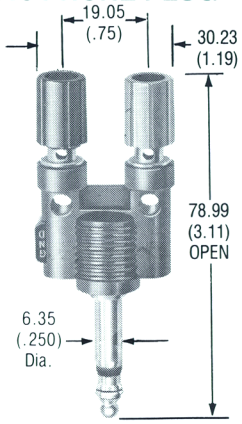
Permits single or double banana plug to be used with equipment having phone jacks. Cross holes 4.22 (.166) dia. in plug body provide side stackup.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: Standard phone plug.
RATING: 500 WVDC, 50°C. (+122°F.) Max.



MODEL **1285** — **LIST 11.50**

BINDING POSTS TO PJ-051/WE-310 PHONE PLUG

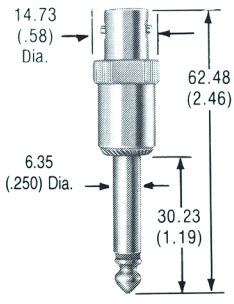
Permits single or double banana plug to be used with equipment having three circuit phone jacks. Tip connected to hot side of adapter and ring connected to ground side. Sleeve, no connection. Cross holes 4.22 (.166) dia. in plug body provide side stackup.
UPPER: Double binding post. Body with captive thumb nut, brass, nickel plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
INSULATION: ABS, black.
LOWER: Phone plug, PJ-051 (equivalent to WE-310).
RATING: 500 V Peak, + 50°C. (+122°F.) Max.



MODEL **2112** — **LIST 17.15**

BNC FEMALE TO PHONE PLUG

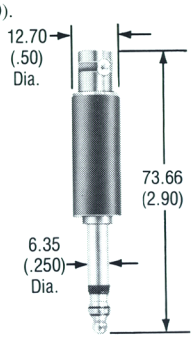
Permits BNC male to be used with equipment having standard 6.35 (.250) dia. phone jacks. Readily adapts equipment to available BNC coaxial cables. All metal construction to insure proper shielding.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: Standard phone plug.
RATING: 500 VRMS, +125°C. (+257°F.) Max.



MODEL **1297** — **LIST 8.75**

BNC FEMALE TO PJ-051/WE-310 PHONE PLUG

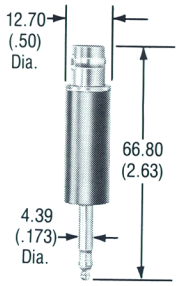
Permits BNC male to be used with equipment having three circuit phone jacks. Readily adapts equipment to available BNC coaxial cables. Tip connected to inner contact of connector and ring connected to shell. Sleeve, no connection.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Phone plug, PJ-051 (equivalent to WE-310).
RATING: 500 V Peak, 50°C. (+122°F.) Max.



MODEL **2798** — **LIST 16.75**

BNC FEMALE TO MINIATURE PHONE PLUG

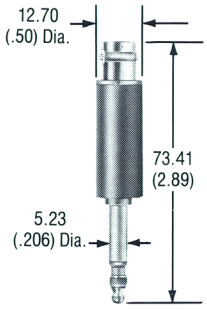
Permits BNC male to be used with equipment having miniature phone jacks. Readily adapts equipment with BNC jacks through the use of BNC coaxial cables. Tip connected to inner contact of connector and ring connected to shell. Sleeve, no connection.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Miniature phone plug.
RATING: 500 V Peak, 50°C. (+122°F.) Max.



MODEL **4719** — **LIST 15.90**

BNC FEMALE TO PJ-068/WE-309 PHONE PLUG

Permits BNC male to be used with equipment having three circuit phone jacks. Readily adapts equipment to available BNC coaxial cable. Tip connected to inner contact of connector and ring connected to shell. Sleeve, no connection.
UPPER: BNC female. Impedance: 50 Ohms.
INSULATION: ABS, black.
LOWER: Phone plug, PJ-068 (equivalent to WE-309).
RATING: 500 V Peak, 50°C. (+122°F.) Max.



MODEL **1794** — **LIST 27.50**

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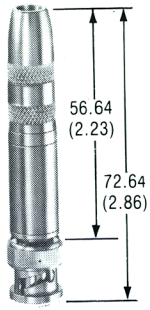
PHONE JACK TO BNC MALE

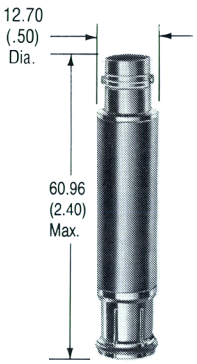
Permits a standard 2 conductor 6.35 (.250) dia. phone plug to be used with equipment having BNC female. All metal construction to insure proper shielding.
UPPER: Phone jack. Accepts standard 6.35 (.250) dia. phone plug, 30.23 (1.190) long.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL **4043** — **LIST 20.05**

BNC FEMALE TO TYPE "F" MALE PUSH-ON

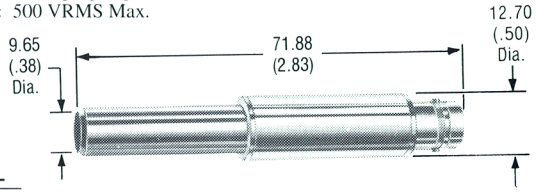
This adapter allows equipment, such as TVs, computers, etc. using type "F" females to be used with equipment with BNC males.
UPPER: BNC female.
LOWER: Push-on Type "F" Male. Brass, nickel plated.
RATING: 500 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.).



MODEL **4941** — **LIST 12.15**

BNC FEMALE TO 2.29 (.090) VIDEO PLUG

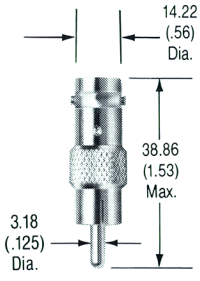
Permits BNC male to be used with equipment having Western Electric 2.29 (.090) video plugs.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: Video plug (equivalent to WE-090).
RATING: 500 VRMS Max.



MODEL **5008** — **LIST 31.45**

BNC FEMALE TO PHONO PLUG

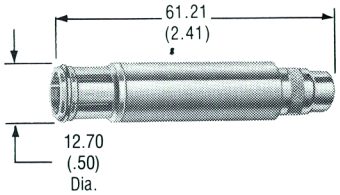
Permits BNC male to be used with equipment having phono jacks. Similar to model 2957, except for length and contact plating.
UPPER: BNC female. Nickel plated center contact. Impedance: 50 Ohms.
LOWER: Phono plug. Brass, nickel plated.
RATING: 500 VRMS Max., +102°C. (+216°F.) Max.



MODEL **5319** — **LIST 4.75**

PHONO JACK TO TYPE "F" MALE PUSH-ON

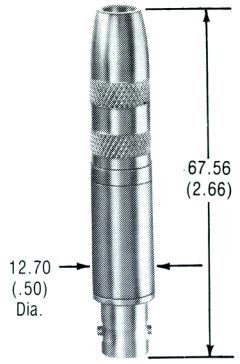
This adapter is a must for the home computer user. It allows a phono cable to be plugged into the type "F" female connector in the rear of TV sets.
UPPER: Phono jack. Brass, nickel plated.
LOWER: Type "F" male, push-on.
RATING: +50°C. (+122°F.) Max.



MODEL **4984** — **LIST 10.20**

PHONE JACK TO BNC FEMALE

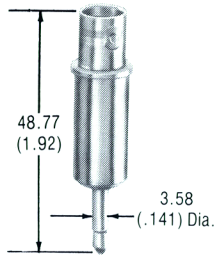
This adapter allows a cable with a 2 conductor 6.35 (.250) dia. phone plug to be attached to a cable with a BNC male. All metal construction for proper shielding.
UPPER: Phone jack. Accepts standard 6.35 (.250) dia. phone plug. Brass, nickel plated.
LOWER: BNC female. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +85°C. (+185°F.) Max.



MODEL **4026** — **LIST 15.20**

BNC FEMALE TO TINI PLUG

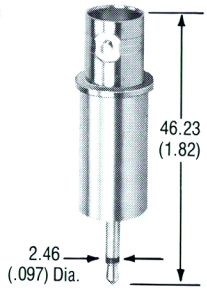
Permits BNC male to be used with equipment having tini jacks. Readily adapts equipment to available BNC coaxial cables. All metal construction to insure proper shielding.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: 2 conductor tini plug.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL **3837** — **LIST 9.85**

BNC FEMALE TO MICRO PLUG

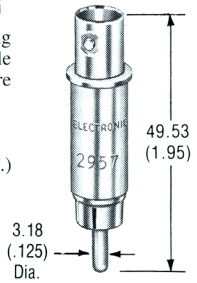
Permits BNC male to be used with equipment having micro jacks. Readily adapts equipment to available BNC coaxial cables. All metal construction to insure proper shielding.
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: 2 conductor micro plug.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL **4267** — **LIST 10.85**

BNC FEMALE TO PHONO PLUG

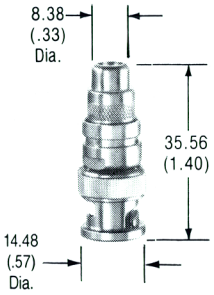
Permits BNC male to be used with equipment having phono jacks. Readily adapts equipment to available BNC coaxial cables. All metal construction to insure proper shielding. (See also model 5319).
UPPER: BNC female. Impedance: 50 Ohms.
LOWER: Phono plug, brass, nickel plated.
RATING: 500 VRMS Max., +102°C. (+216°F.) Max.



MODEL **2957** — **LIST 7.50**

PHONO JACK TO BNC MALE

Permits phono plug to be used with equipment having BNC females. Quickly converts a cable with a phono plug to a BNC male. All metal construction to insure proper shielding.
UPPER: Phono jack. Brass, nickel plated.
LOWER: BNC male. Impedance: 50 Ohms.
RATING: 500 VRMS Max., +125°C. (+257°F.) Max.



MODEL **4054** — **LIST 13.05**

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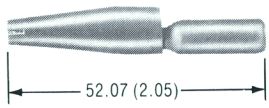
INSULATED MINIGATOR CLIP TO BANANA JACK

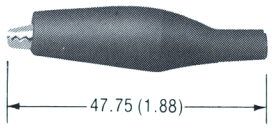
MATERIAL: Minigator clip, steel. Banana jack, brass. Accepts standard banana plug.
FINISH: Minigator clip, nickel plated. Banana jack, tin plated.
INSULATION: Vinyl.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		
3448-*	(unassembled) 1 clip and 1 insulator per pkg.	LIST 2.00

INSULATED MINIGATOR CLIP TO PIN JACK

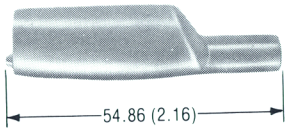
MATERIAL: Minigator clip, steel. Pin jack body, brass. Spring, beryllium copper. Accepts 2.03 (.080) dia. pin.
FINISH: Minigator clip, nickel plated. Pin jack, gold plated.
INSULATION: Vinyl.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		
3491-*	(unassembled) 1 clip and 1 insulator per pkg.	LIST 2.65

INSULATED ALLIGATOR CLIP TO BANANA JACK

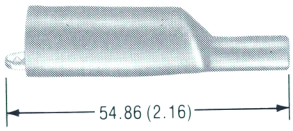
MATERIAL: Alligator clip, steel. Accepts standard banana plug.
FINISH: Nickel plated.
INSULATION: Vinyl.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		
2240-*	(unassembled) 10 clips and 10 insulators per pkg.	LIST 5.50 PKG (Pkg Ten Per Color)

GOLD PLATED INSULATED ALLIGATOR CLIP TO BANANA JACK

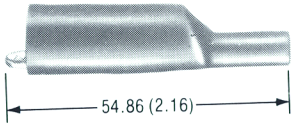
MATERIAL: Alligator clip, copper. Accepts standard banana plug.
FINISH: Gold plated.
INSULATION: Vinyl.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



MODEL		
3289-*	(unassembled) 1 clip and 1 insulator per pkg.	LIST 2.10

INSULATED ALLIGATOR CLIP TO PIN JACK

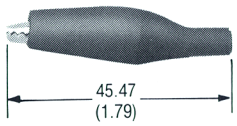
MATERIAL: Alligator clip, steel. Pin jack body, brass. Spring, beryllium copper. Accepts 2.03 (.080) dia. pin.
FINISH: Alligator clip, nickel plated. Pin jack, gold plated.
INSULATION: Vinyl.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

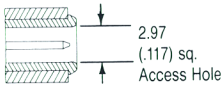


MODEL		
1437-*	(unassembled) 10 clips and 10 insulators per pkg.	LIST 15.00 PKG (Pkg Ten Per Color)

INSULATED MINIGATOR CLIP TO 0.64 (.025) SQUARE PIN

1ST END: Minigator clip, steel, nickel plated.
INSULATION: Vinyl.
2ND END: 0.64 (.025) Square Pin, phosphor bronze, gold plated.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.





MODEL	
5363-*	LIST 2.85

HEAVY DUTY ALLIGATOR CLIP

Grips up to 9.5 (.37). Protected up to 250V when properly used. Overall length 81 (3.14).
MATERIAL: Alligator clip, tinned brass.
INSULATION: Plastic.
RATING: 250V. Max.
***STD COLORS:** -0 Black, -2 Red.

MODEL	
5785-*	LIST 3.45

LARGE ALLIGATOR CLIP WITH SCREW

Test up to 10 (.39) Dia. . Screw connection for wires up to 18 AWG (2.4mm). Overall length 80.5 (3.17).
MATERIAL: Alligator clip, tinned brass.
INSULATION: Plastic.
***STD COLORS:** -0 Black, -2 Red.

MODEL	
5786-*	LIST 2.63

MEDIUM ALLIGATOR CLIP

Plastic insulated with Standard 4mm Banana Jack. Overall length 56 (2.20).
MATERIAL: Alligator clip, tinned brass.
INSULATION: Plastic.
***STD COLORS:** -0 Black, -2 Red.

MODEL	
5787-*	LIST 2.53

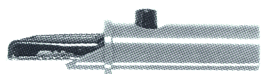
MINIATURE ALLIGATOR CLIP

Plastic insulated with miniature 2mm Banana Jack. Overall length 40 (1.57).
MATERIAL: Alligator clip, tinned brass.
INSULATION: Plastic.
***STD COLORS:** -0 Black, -2 Red.

MODEL	
5788-*	LIST 13.80 PKG (Pkg Ten Per Color)

DISPOSABLE ALLIGATOR CLIP

Features button fix/release for lead retention. Standard 4mm Banana Jack. Overall length 53 (2.09)
MATERIAL: Alligator clip, tinned brass.
INSULATION: Plastic.
***STD COLORS:** -0 Black, -2 Red.



MODEL	
5791-*	LIST 9.80 PKG (Pkg Ten Per Color)

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ADAPTERS WITHIN SERIES

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: 500 VRMS Max.(Except as noted.), -65°C. (-85°F.) to +165°C. (+329°F.)
IMPEDANCE: 50 Ohms.

See pg. 43 for Coaxial Adapter Kit.

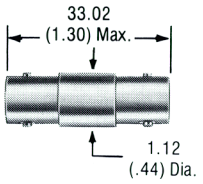


FIG. 1

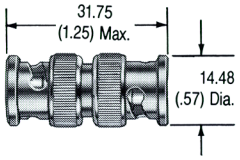


FIG. 2

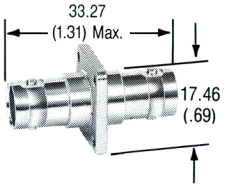


FIG. 3
See Cutout 1

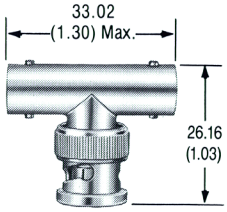


FIG. 4

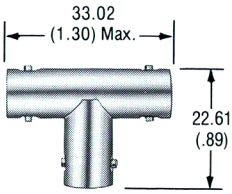


FIG. 5

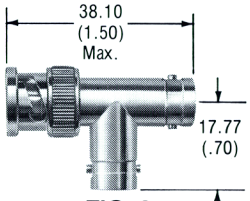


FIG. 6

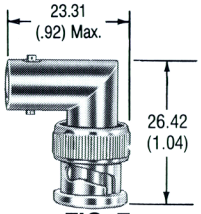


FIG. 7

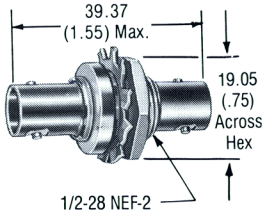


FIG. 8
See Cutout 2

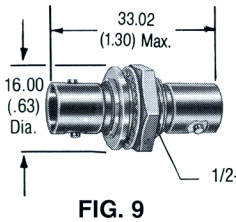


FIG. 9
See Cutout 2

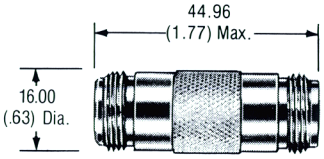


FIG. 10

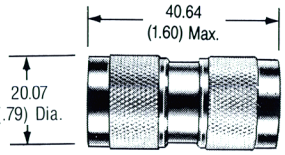


FIG. 11

a) Mounting hardware is isolated from outerconductor of BNC.
b) Leakage rate less than 10^{-7} cc/sec of tracergas at one atmosphere.

	FIG.	MODEL	Special Features	LIST
BNC (f/f)	1	3283		4.15
BNC (m/m)	2	3533		7.80
BNC (f/f)	3	4895		10.25
BNC (f/m/f)	4	3285		10.95
BNC (f/f/f)	5	3284		12.10
BNC (m/f/f)	6	4896		16.90
BNC (f/m)	7	3534		9.50
BNC (f/f)	8	3847	Hermetically Sealed b)	10.95
BNC (f/f)	9	3846	Isolated Ground a)	13.40
"N" (f/f)	10	3841		9.20
"N" (m/m)	11	3842	Operating Voltage 1000 VRMS Max.	10.30
"N" (f/m)	12	3843		16.00
"N" (f/f)	13	4956		18.40
"N"(f/f/f)	14	5089		18.35
TNC (f/f)	15	4940		7.95

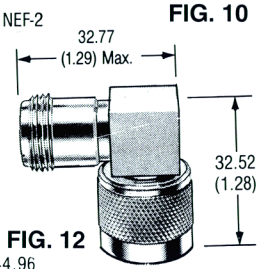


FIG. 12

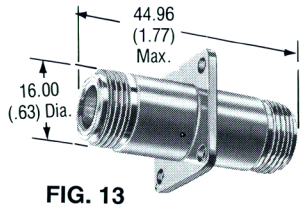


FIG. 13

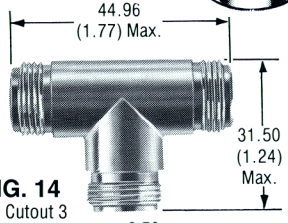


FIG. 14
See Cutout 3

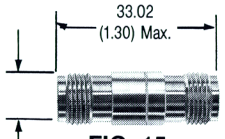
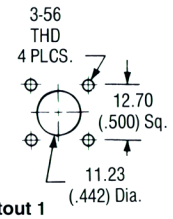


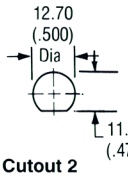
FIG. 15



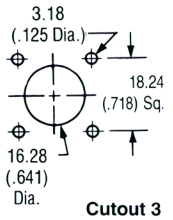
Flange Thickness
2.29 (.09)

Cutout 1

PANEL CUTOUTS



Cutout 2



Cutout 3

BNC WITHIN SERIES ADAPTER KIT

Kit contains one each:

3283	BNC Female to Female
3284	BNC T (Female/Female/Female)
3285	BNC T (Female/Male/Female)
3533	BNC Male to Male
3534	BNC Right Angle Male to Female
4896	BNC T (Male/Female/Female)

MODEL	LIST
5511	55.00

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ADAPTERS BETWEEN SERIES

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon. (Models 3286 & 3287, rexolite.)
CENTER CONTACT: Male, brass. Female, beryllium copper. (Except as noted.) Gold plated.
RATING: 500 VRMS Max., -65°C. (-85°F.) to +165°C. (+329°F.) (Except as noted.)
IMPEDANCE: 50 Ohms. (Except as noted.)

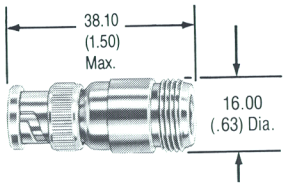


FIG. 1

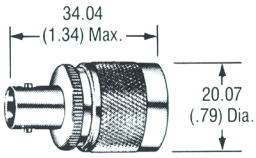
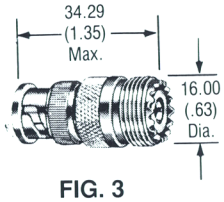


FIG. 2



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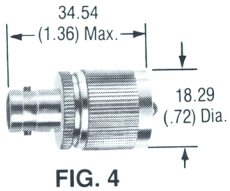

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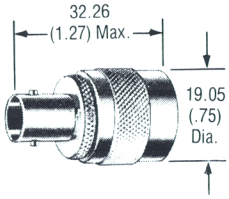
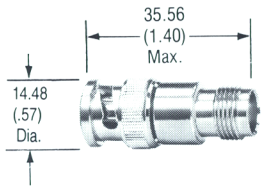


FIG. 5

Type	FIG.	MODEL	Special Features	Temp. Range	LIST
BNC (m) / "N" (f)	1	**3535**			10.75
BNC (f) / "N" (m)	2	**3288**	Beryllium Copper Male Contact		7.50
BNC (m) / UHF (f)	3	**3287**	Phos. Bronze Contact Nonconstant Impedance	-55°C. (-67°F.) to +85°C. (+185°F.)	10.85
BNC (f) / UHF (m)	4	**3286**	Nonconstant Impedance	-55°C. (-67°F.) to +85°C. (+185°F.)	7.15
BNC (f) / "C" (m)	5	**3845**	Beryllium Copper Male Contact		14.85
BNC (m) /TNC (f)	6	**5086**			10.25
BNC (f) /TNC (m)	7	**3844**			11.45



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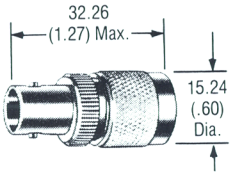
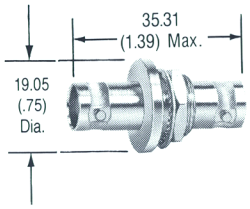
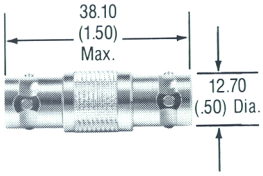


FIG. 7

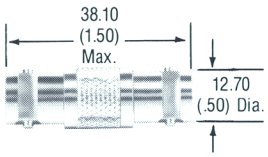
TRIAXIAL ADAPTERS WITHIN SERIES, FEMALE



MODEL 5178
See Cutout

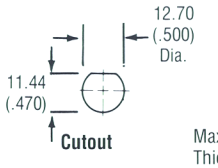


MODEL 5278



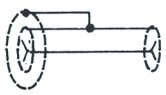
MODEL 5290

MODEL	Special Features	LIST
5178	2 Lug	16.05
5278	3 Lug	14.35
5290	2 Lug	15.10

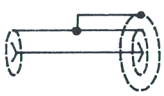


Max. Panel Thickness 6.35 (.25)

TRAXIAL TO BNC ADAPTERS



TRIAX BNC



BNC TRIAX

TYPE	FIG.	MODEL	LIST
3 Lug Triax (f)/BNC (m)	1	**5299**	17.00
2 Lug Triax (f)/BNC (m)	2	**5298**	17.90
BNC (f)/2 Lug Triax (m)	3	**5090**	19.10
BNC (f)/3 Lug Triax (m)	4	**5300**	17.50

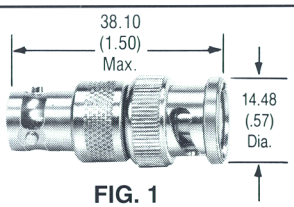


FIG. 1

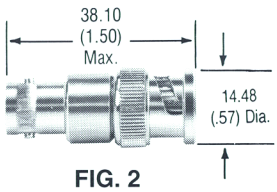


FIG. 2

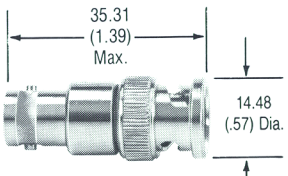


FIG. 3

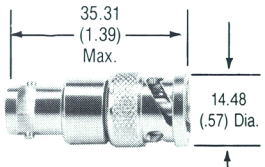


FIG. 4

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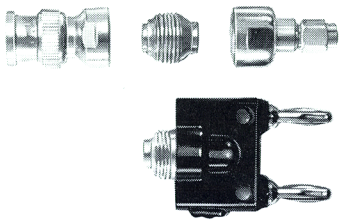
UNIVERSAL ADAPTER KITS

Model 5698 and 5748 Adapter Kits allow users to make their own adapter combinations, such as SMA to BNC or BNC to double banana plugs. Adapter ends are joined with coupling nuts. Simply choose your own combination. All connectors feature gold plated center contacts and silver plated bodies.



Rating:
Operating Temperature
Coaxial connectors:
-67°F. to +302°F. (-55°C. to +150°C.)
Banana Plug/Binding Post adapters:
+122°F. (+50°C.) Max.
Nominal Impedance:
BNC, SMA, TNC, "N", sampler:
50 Ohms.
"F": 75 Ohms.
RCA, UHF: Non-constant.

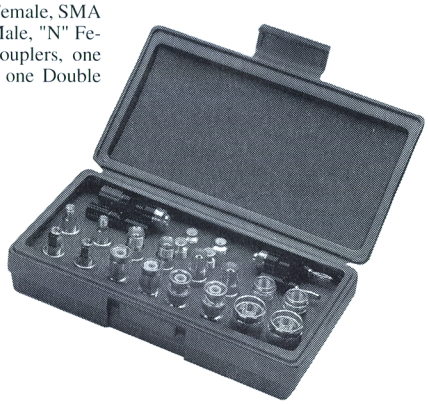
Operating Voltage
"N", couplers: 1,000 VRMS Max.
BNC, TNC, UHF, "F", Banana Plugs, Binding Posts: 500 VRMS Max.
SMA connectors: 335 VRMS Max.
"F", RCA: 100 VRMS.

Materials and Finish:
BNC, SMA, TNC, "F", "N", UHF, coupler
Center Contact: Gold plated phos phor bronze
Dielectric: Teflon
Shell: Silver plated brass.
Double Banana Plug
Banana Plug: Nickel plated beryllium copper spring.
Coupler: Gold plated brass contact.
Insulation: ABS, black.

Double Binding Post Adapter
Binding Post: Nickel plated brass.
Polycarbonate insulation, one black and one red.
Insulation: ABS, black.
Coupler: Gold plated brass center contact.

UNIVERSAL ADAPTER KIT

The Universal Adapter Kit, Model 5698 contains 2 pcs. each: BNC Male, BNC Female, TNC Male, TNC Female, SMA Male, SMA Female, "N" Male, "N" Female, four intermediate Couplers, one Double Banana Plug and one Double Banna Jack.



MODEL	LIST
5698	109.00

MAXI UNIVERSAL ADAPTER KIT

The Maxi Adapter Kit, Model 5748 contains 2 pcs. each: BNC Male, BNC Female, TNC Male, TNC Female, SMA Male, SMA Female, "N" Male, "N" Female, UHF Male, UHF Female, Mini UHF Male, Mini UHF Female, "F" Male, "F" Female, RCA Male, RCA Female, six intermediate Couplers, one Double Banana Plug, one Double Banna Jack and one Sampler.

MODEL	LIST
5748	219.00

ADAPTER KIT ACCESSORIES

Individual adapters for the Universal Adapter Kits are also available.

Coupling nut Adapter to	Model No.	Used in Kit No. 5698	Used in Kit No. 5748	LIST	Coupling nut Adapter to	Model No.	Used in Kit No. 5698	Used in Kit No. 5748	LIST
BNC (m)	5735	2	2	4.20	Mini UHF (m)	5753		2	3.50
BNC (f)	5739	2	2	3.40	MIni UHF (f)	5757		2	3.30
TNC (m)	5736	2	2	4.20	RCA (m)	5754		2	5.50
TNC (f)	5740	2	2	3.50	RCA (f)	5758		2	5.70
SMA (m)	5737	2	2	3.60	F (m)	5755		2	4.80
SMA (f)	5741	2	2	3.30	F (f)	5759		2	5.10
N (m)	5734	2	2	4.60	Coupler	5742	4	6	3.40
N (f)	5738	2	2	3.70	Dbl Banana Plug	5743	1	1	10.90
UHF (m)	5752	2	2	4.60	Dbl BInding Post	5744	1	1	13.20
UHF (f)	5756	2	2	3.50	Sampler	5760		1	16.00

UNIVERSAL COUPLING NUT CABLE ASSEMBLY

This cable allows the user to make cable assemblies from any of the coaxial adapters in the Universal or Maxi Adapter Kits. Individual connectors can be threaded onto the coupling nut on each end of the cable for additional utility.

MODEL	Length	LIST
5749-36	914.4 (36.0)	7.50
5749-72	1828.8 (72.0)	9.50

1ST END: Threaded Coupling Nut. Gold plated center contact.

CABLE: RG 58C/U O.D. 4.95 (.195)

2ND END: Same as first end. O.D.

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SMA ADAPTERS

SHELL: SMA, beryllium copper.
All others, brass.
INSULATION: Teflon.
CENTER CONTACT: Male, brass.
Female, beryllium copper.
FINISH: Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms.

These SMA adapters meet the requirements of MIL-A-55339. The 50 Ohm subminiature series RF connectors are especially adaptable to microwave component applications, such as couplers, dividers and mixers.

Thread SMA Male: 1/4-36 UNS-2B, SMA Female: 1/4-36 UNS-2A.

Frequency range: SMA to BNC: 0-4 GHz.
SMA to TNC and SMA to N: 0-11 GHz.
Within Series SMA: 0-12 GHz.

Temperature range: -65°C. (-85°F.) to +165°C. (+329°F.)

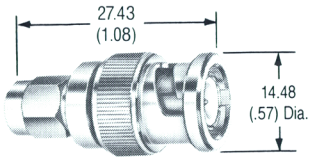


FIG. 1

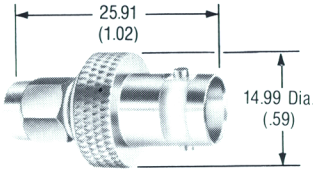


FIG. 2

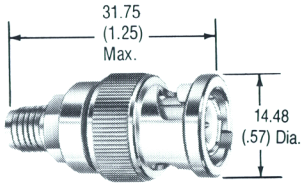
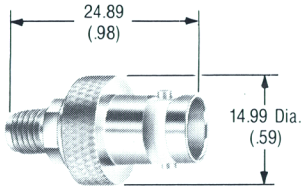


FIG. 3



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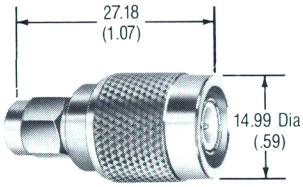


FIG. 5

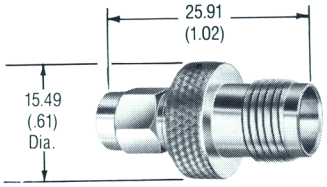


FIG. 6

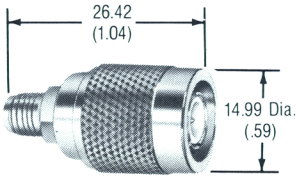


FIG. 7

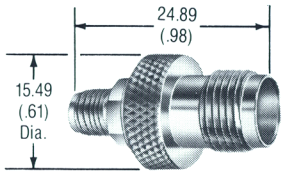


FIG. 8

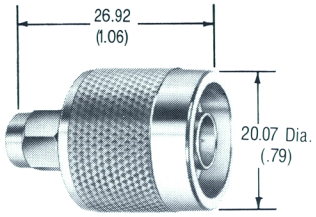
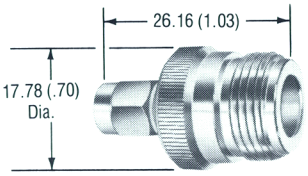


FIG. 9



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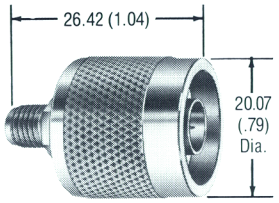

FIG. 11

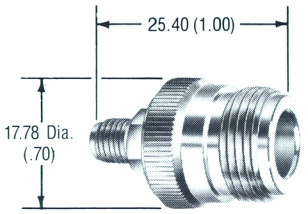

FIG. 12

STYLE	FIG.	MODEL	LIST
SMA (m)/BNC (m)	1	**4288**	25.85
SMA (m)/BNC (f)	2	**4290**	20.40
SMA (f)/BNC (m)	3	**4289**	26.80
SMA (f)/BNC (f)	4	**4291**	20.70
SMA (m)/TNC (m)	5	**4292**	35.50
SMA (m)/TNC (f)	6	**4294**	27.35
SMA (f)/TNC (m)	7	**4293**	30.95
SMA (f)/TNC (f)	8	**4295**	27.55
SMA (m)/TNC (m)	9	**4296**	32.95
SMA (m)/"N" (f)	10	**4298**	27.30
SMA (f)/"N" (m)	11	**4297**	30.80
SMA (f)/"N" (f)	12	**4299**	23.60
SMA (m/m)	13	**4283**	28.70
SMA (f/f)	14	**4285**	40.50
SMA (f/m)	15	**4282**	41.40
SMA (f/f)	16	**4284**	28.65

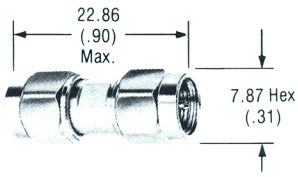

FIG. 13

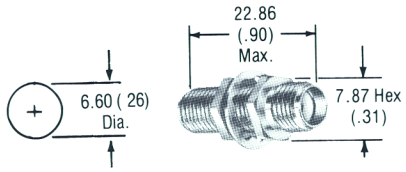

FIG. 14

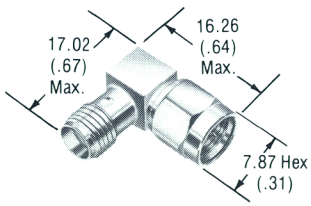

FIG. 15

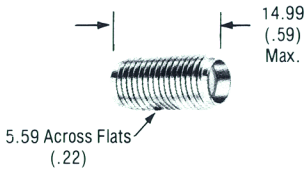

FIG. 16

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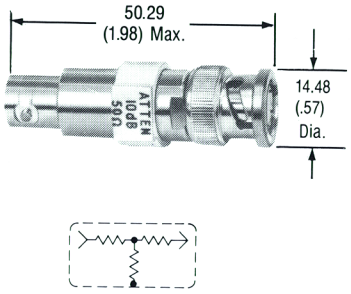
BNC 50 OHM ATTENUATORS

For use with pulse, microwave, or UHF instruments. 50 Ohm, metal film resistor, deposited nichrome over ceramic core, 2 Watt T-Pad network. White nylon anti-roll sleeve.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: 10 VRMS Max., 2 Watts @ 25°C.

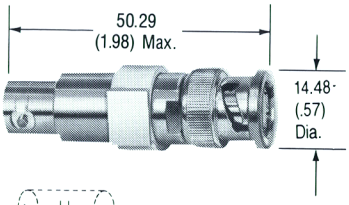


LIST 49.95

MODEL	Attentuation	VSWR	Attentuation Tolerance
4108-3dB	3dB	1.1 to 1GHz	+0.4 dB to 1GHz
4108-6dB	6dB	1.2 to 2GHz	+0.45dB to 2GHz
4108-10dB	10dB	1.35 to 4GHz	+0.65dB to 4GHz
4108-14dB	14dB	1.45 to 6GHz	+0.75dB to 6GHz
4108-20dB	20dB	1.65 to 8GHz	+1.0 dB to 8GHz

BNC FEED-THRU SERIES CAPACITOR

Provides a DC block for sensitive RF measurements.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: 1000 pF, 600 VDC, +102°C. (+216°F.)



MODEL
5297

LIST 20.95

BNC RESISTOR TERMINATED MALE PLUG

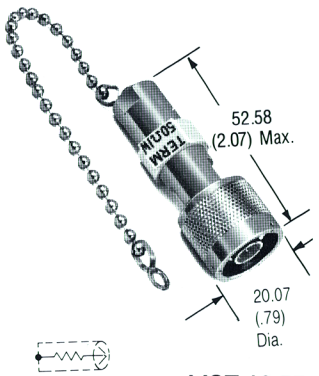
Ideal for terminating coaxial lines. 1%, 1/2 Watt, deposited carbon resistor. 88.9 (3.5) bead chain with 3.56 (.14) dia. hole in lug. Resistance value marked on white nylon anti-roll sleeve.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Brass, gold plated.
RATING: Frequency Range: DC to 500 MHz, Power: 1.2W @ 70°C. Max.

MODEL	Resist. in Ohms
3840-50	50
3840-75	75
3840-93	93
3840-100	100
3840-600	600

LIST 8.95

TYPE "N" RESISTOR TERMINATED MALE PLUG

Ideal for terminating coaxial lines. 1%, 1 Watt, deposited carbon resistor. 127 (5.0) bead chain with 3.56 (.14) dia. hole in lug. Resistance value marked on white nylon anti-roll sleeve.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Brass, gold plated.
RATING: Frequency Range: DC to 500 MHz, Power: 1W @ 70°C. Max.

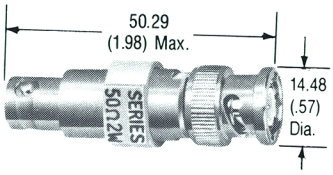


MODEL	Resist. in Ohms
4240-50	50
4240-75	75
4240-600	600

LIST 18.55

BNC FEED-THRU RESISTOR

Ideal for adding in-series resistance to coaxial lines with BNC connectors. 1%, 2 Watt, non-inductive film resistor. Resistance value marked on white nylon anti-roll sleeve.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: Frequency Range: DC to 500 MHz, +102°C. (+216°F.) Max.

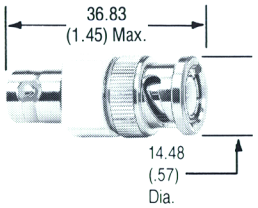


MODEL	Resist. in Ohms
4391-25	25
4391-50	50
4391-75	75
4391-93	93
4391-600	600

LIST 22.95

BNC FEED-THRU TERMINATION

Ideal for terminating pulse, microwave or UHF instruments in their characteristic impedance. Termination carbon film resistor, deposited over ceramic core, 2%, 2W. Resistance value marked on white nylon anti-roll sleeve.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: Frequency Range: DC to 500 MHz, +102°C. (+216°F.) Max.



MODEL	Resist. in Ohms
4119-50	50
4119-75	75
4119-93	93
4119-600	600

LIST 39.95

BNC TERMINATION KIT

Kit contains one each:

3840-50	50 Ohms
3840-75	75 Ohms
3840-93	93 Ohms
3840-100	100 Ohms
3840-600	600 Ohms

MODEL
5512

LIST 41.00

BNC 50 OHM ATTENUATOR KIT

Kit contains one each:

4108-3dB	3dB Attenuation
4108-6dB	6dB Attenuation
4108-10dB	10dB Attenuation
4108-14dB	14dB Attenuation
4108-20dB	20dB Attenuation

MODEL
5513

LIST 225.00

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BULKHEAD RECEPTACLES

SHELL: Brass, tarnish resistant plated. (SMA, beryllium copper, gold plated.)
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. (UHF, phosphor bronze.) Gold plated.
RATING: 500 VRMS Max., (Type N, 1000 VRMS Max., SMA, 335 VRMS Max.) -65°C. (-85°F.) to +165°C. (+329°F.)
IMPEDANCE: 50 Ohms (Except as noted.)

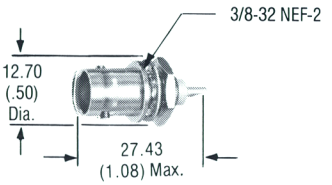


FIG. 1
Cutout 1

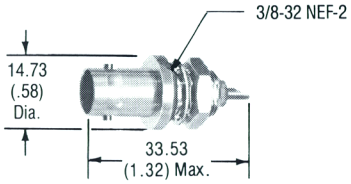


FIG. 2
Cutout 2

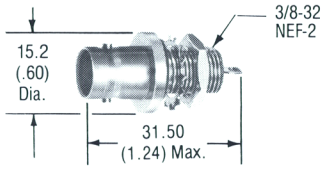


FIG. 3
Cutout 1

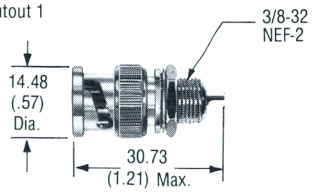


FIG. 4
Cutout 1

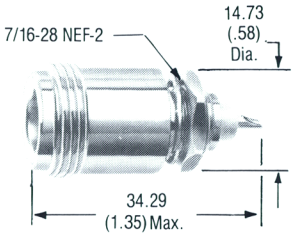


FIG. 5
Cutout 1

	FIG.	MODEL	Special Features	Max. Panel Thickness	a	b	LIST
BNC (f)	1	**4160**		3.30 (.13)	9.53 (.375)	8.89 (.350)	3.05
BNC (f)	1	**5081**	75 Ohms c)				8.95
BNC (f)	2	**4158**	Pressurized a)	6.10 (.24)		8.64 (.340)	8.50
BNC (f)	3	**4159**	Hermetically Sealed b)	9.40 (.37)		8.89 (.350)	10.30
BNC (m)	4	**4979**		4.83 (.19)			9.85
"N" (f)	5	**4889**		6.60 (.26)	11.51 (.453)	10.59 (.417)	14.90
SMA (f)	6	**5608**	Gold Plated	3.05 (.12)	6.48 (.225)	6.10 (.240)	12.50

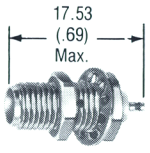
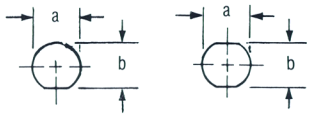


FIG. 6
Cutout 1



Cutout 1 **Cutout 2**

PANEL CUTOUTS

a) Rated to 50 PSI.
b) Leakage rate less than 10^{-7} cc/sec of tracer gas at one atmosphere.
c) Standard BNC interface.

ISOLATED GROUND FEMALE BULKHEAD RECEPTACLES

These connectors have the outer conductor isolated from the panel. Excellent for use with equipment requiring a floating ground. Mounts in panels up to 4.57 (.18) thick.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon. (Except as noted.)
CENTER CONTACT: Beryllium copper, gold plated.
RATING: 500 VRMS Max., -65°C. (-85°F.)to +165°C. (+329°F.)
IMPEDANCE: 50 Ohms (Except as noted.)

TYPE	FIG.	MODEL	Special Features	LIST
BNC (f)	1	**3778**		7.85
BNC (f)	1	**5348**	75 Ohms a) Impedance	9.10
BNC (f)	2	**5148**	Valox insulation	8.25
TNC (f)	3	**5084**		7.95

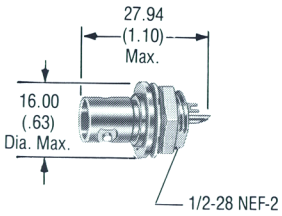


FIG. 1
See Cutout 1

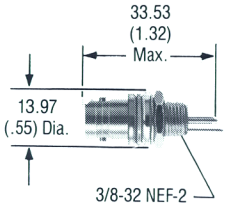


FIG. 2
See Cutout 2

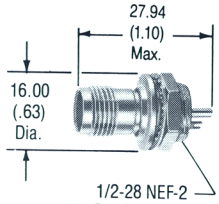
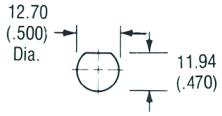
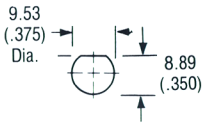


FIG. 3
See Cutout 1

a) Standard BNC interface.

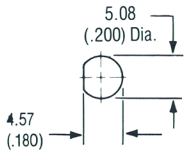


CUTOUT 1

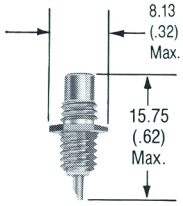


CUTOUT 2

SMC BULKHEAD, MALE (JACK)

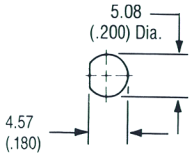


PANEL CUTOUT

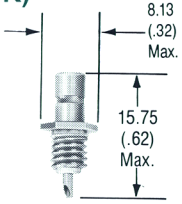


MODEL	LIST
5374	**5.15**

SMB BULKHEAD, MALE (JACK)



PANEL CUTOUT



MODEL	LIST
5383	**5.45**

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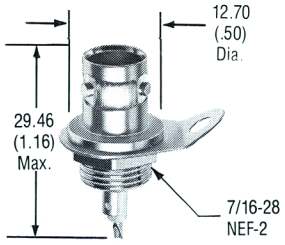
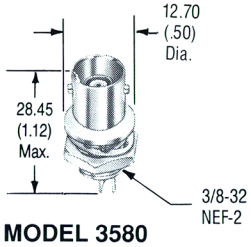
TRIAXIAL BULKHEAD RECEPTACLES, FEMALE

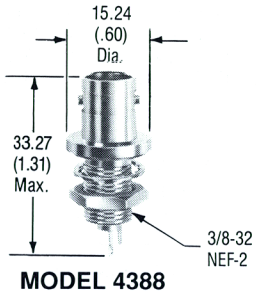
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated per requirements of MIL-C-49142.
RATING: 500 VRMS, Frequency Range: DC to 500 MHz, -65°C. (-85°F.) to +165°C. (+329°F.)



MODEL 5219
See Cutout 1



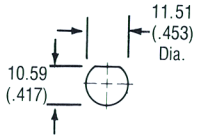
MODEL 3580
See Cutout 2



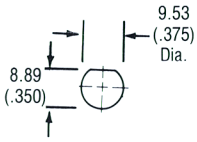
MODEL 4388
See Cutout 2

a) Leakage less than 10^{-7} cc/sec tracer gas at one atmosphere.
b) Mounting hardware is isolated from outer conductor.

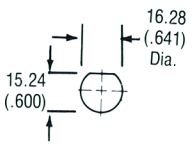
MODEL	Special Features		LIST
3580	2 Lug		12.85
4388		Hermetically Sealed a)	65.70
5091		Isolated Ground b)	17.60
5219	3 Lug		13.20



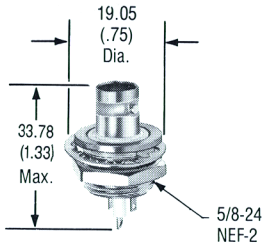
Cutout 1
Max. Panel Thickness
3.56 (.14)



Cutout 2
Max. Panel Thickness
6.35 (.25)



Cutout 3
Max. Panel Thickness
6.35 (.25)



MODEL 5091
SEE FIG. 3

PANEL RECEPTACLES

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. (UHF, brass.) Gold plated.
RATING: 500 VRMS Max. (Except as noted) -65°C. (-85°F.) to +165°C. (+329°F.)
IMPEDANCE: 50 Ohms.

Flange Thickness 2.29 (.09)

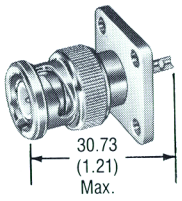


FIG. 1

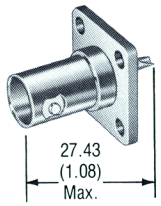


FIG. 2

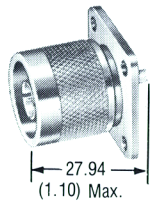


FIG. 3

TYPE	FIG.	MODEL	Special Features	Panel Cutout	LIST
BNC (m)	1	2447		1	8.05
BNC (f)	2	2451			4.00
"N" (m)	3	2454	Operating Voltage 1000 VRMS Max.	2	19.50
"N" (f)	4	2455			7.20

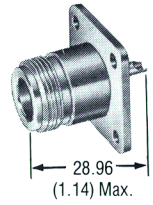
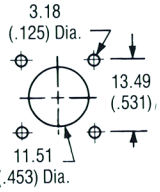
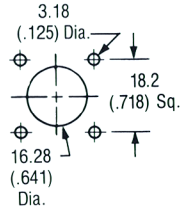


FIG. 4



Cutout 1

PANEL CUTOUTS



Cutout 2

SMA PANEL RECEPTACLES

SHELL: Models 4809 & 4808, Passivated Steel. Models 4850 & 4849, Stainless Steel, gold plated.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper, gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)

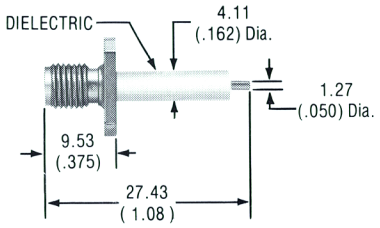


FIG. 1

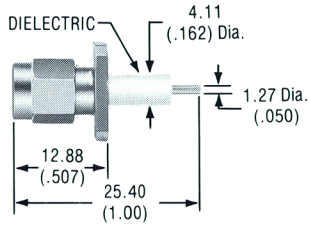
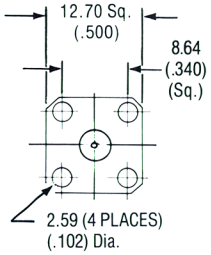


FIG. 2

TYPE	FIG.	MODEL	LIST
SMA (f)	1	4809	11.15
SMA (m)	2	4808	19.80
SMA (f)	3	4849	38.00
SMA (m)	4	4850	17.00



PANEL CUTOUT
Flange thickness 1.65 (.065)

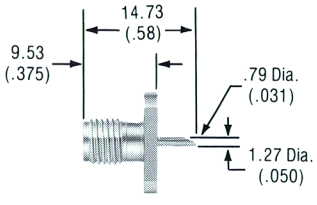


FIG. 3

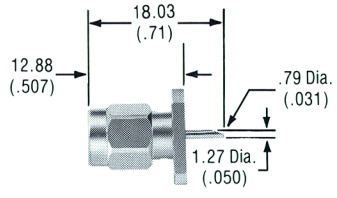


FIG. 4

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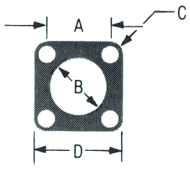
RFI/EMC CONNECTOR FLANGE GASKET

This RFI/EMC connector flange gasket has an adhesive back for simple installation. Monel metal fibers imbedded in this silicone rubber gasket suppresses RFI/EMC radiation. Model 4780 fits standard BN/BNC flanges and Model 4795 fits standard type "N" and UHF flanges.



MODEL	A(Sq.)	B Dia.	C Dia.	D(Sq.)	LIST
4780	12.70 (.50)	11.10 (.437)	2.77(.109)	17.53(.69)	5.40
4795	18.30 (.72)	15.88(.625)	4.37(.172)	25.40(1.00)	4.00

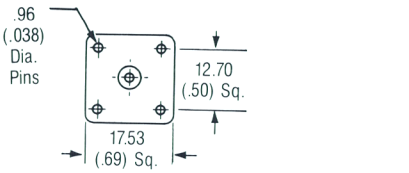
RIGHT ANGLE FEMALE PC MOUNT

Permits the installation of a right angle BNC female directly to a 1/16" printed circuit board.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper. Gold plated.
PC PINS: Brass, silver plated.
RATING: 500 VRMS, Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)

MODEL **4788** LIST 13.85

BNC FEMALE PC MOUNT

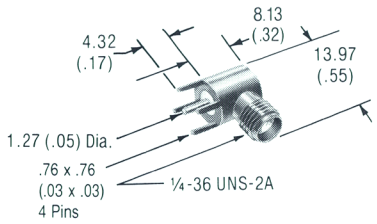
Permits BNC male to be used with 1/8" thick printed circuit board.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper. Gold plated.
PC PINS: Brass, silver plated.
RATING: 500 VRMS, Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)

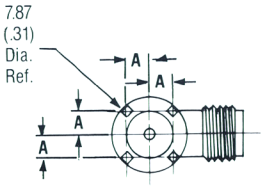


MODEL **4578** LIST 8.75

SMA RIGHT ANGLE FEMALE PC MOUNT

Permits the installation of a right angle SMA female directly to a 1/8" printed circuit board.
SHELL: Beryllium copper, gold plated.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper. Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)



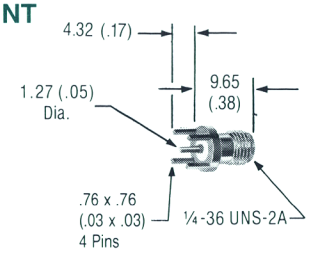


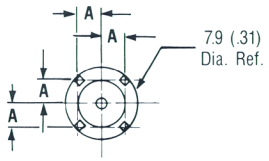
A = 2.54 (.10)

MODEL **4991** LIST 34.45

SMA FEMALE PC MOUNT

Permits SMA male to be used with 1/8" thick printed circuit board.
SHELL: Beryllium copper, gold plated.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper. Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)



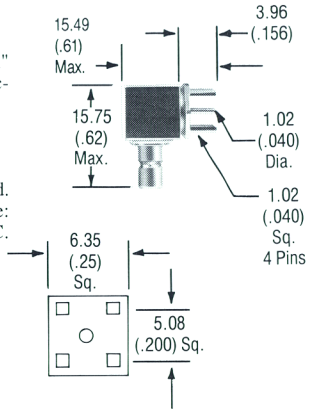


A = 2.54 (.10)

MODEL **4959** LIST 32.30

SMB RIGHT ANGLE MALE (JACK) PC MOUNT

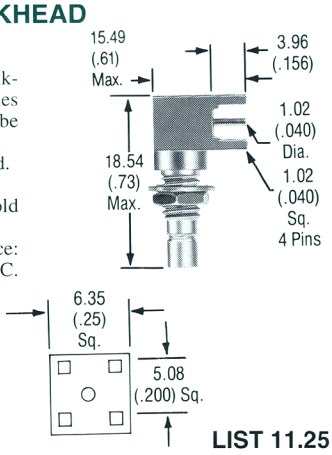
The SMB connectors feature a "snap-on" design for ease in making tight RF connections. Permits SMB male to be used with 1/8" printed circuit board.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Brass. Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)



MODEL **5384** LIST 11.45

SMB RIGHT ANGLE BULKHEAD JACK PC MOUNT

The SMB "snap-on" also features a bulkhead fitting for attachment to black boxes and PC boards. Permits SMB male to be used with 1/8" printed circuit board.
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Brass. Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, -65°C. (-85°F.) to +165°C. (+329°F.)



MODEL **5365** LIST 11.25

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DUST CAPS FOR COAXIAL CONNECTORS

SHELL: Brass, tarnish resistant plated.

MODEL	Type	LIST
3839	BNC	2.45
4157		3.35
4890	UHF or N	5.70

MODEL 3839

MODEL 4157

MODEL 4890

BNC SHORTING PLUG

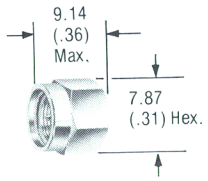
Use this BNC shorting plug to protect sensitive instrument inputs or to provide a necessary reference short.
SHELL: Brass, tarnish resistant plated.
CENTER CONTACT: Brass, gold plated.
RATING: 500 VRMS Max.

MODEL
5085

LIST 6.35

SMA SHORTING PLUG

Use this SMA shorting plug to protect sensitive instrument inputs or to provide a necessary reference short.
SHELL: Steel, gold plated.
CENTER CONTACT: Steel, gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms.

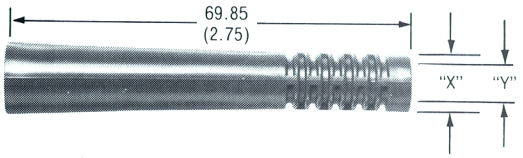


MODEL
5088

LIST 17.25

STRESS RELIEF BOOT

For use with crimp-on type connectors.
MATERIAL: PVC.
RATING: +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

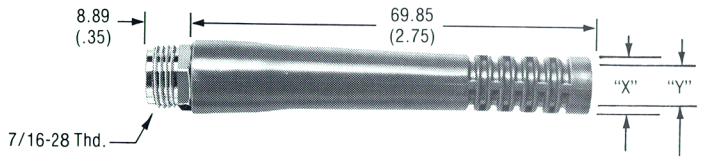


MODEL	Fits Cable Types	Cable O.D.	"X" Dim.	"Y" Dia.
5155-*	RG 58, 141	4.70 (.185)-5.08 (.200)	9.91 (.39)	5.33 (.21)
5156-*	RG 59, 62, 210	6.02 (.237)-6.27 (.247)	9.91 (.39)	6.60 (.26)
5157-*	RG 174, 187, 188	2.29 (.090)-2.79 (.110)	3.05 (.12)	3.05 (.12)

LIST 5.50 PKG
(Pkg. Ten Per Color)

STRESS RELIEF BOOT WITH CLAMP NUT

For use with connectors using a 7/16-28 clamp nut. Simply replace the supplied clamp nut with the one on the stress relief boot.
CLAMP NUT: Brass, nickel plated.
BOOT: PVC.
RATING: 500 VRMS, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

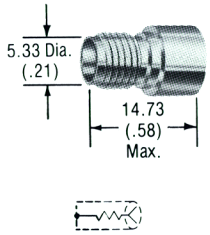


MODEL	Fits Cable Types	Cable O.D.	"X" Dim.	"Y" Dia.
5076-*	RG 58, 141	4.70 (.185)-5.08 (.200)	9.91 (.39)	5.33 (.21)
5077-*	RG 59, 62, 210	6.02 (.237)-6.27 (.247)	9.91 (.39)	6.60 (.26)
5078-*	RG 174, 187, 188	2.29 (.090)-2.79 (.110)	6.60 (.26)	3.05 (.12)

LIST 2.50

SMA FEMALE TERMINATION

SHELL: Beryllium copper.
INSULATION: Teflon.
CENTER CONTACT: Beryllium copper.
FINISH: Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, VSWR: 1.25 Max. to 18 GHz, 1/2 Watt, -65°C. (-85°F.) to +165°C. (+329°F.)

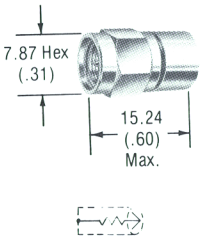


MODEL
4287

LIST 84.95

SMA MALE TERMINATION

SHELL: Beryllium copper.
INSULATION: Teflon.
CENTER CONTACT: Brass.
FINISH: Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms, VSWR: 1.25 Max. to 18 GHz, 1/2 Watt, -65°C. (-85°F.) to +165°C. (+329°F.)



MODEL
4286

LIST 73.05

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COAXIAL CONNECTORS

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon. (UHF, phenolic)
CENTER CONTACT: Male, brass. Female, beryllium copper. (UHF, brass) Gold plated.
RATING: 500 VRMS Max. (Except as noted.)
IMPEDANCE: 50 Ohms (Except as noted.)

See pages 86 & 87 for Cabling instructions.

	CABLE GROUPS RG/U
1	8, 8A, 9, 9A, 9B, 11, 11A, 13A, 213, 214, 216
2	142, 142A, 142B, 223
3	58, 58A, 58C, 141, 141A
4	59, 59A, 59B, 62, 62A, 62B, 62C, 210
5	71, 71A, 71B
6	174, 179A, 179B, 187, 187A, 188, 188A, 316

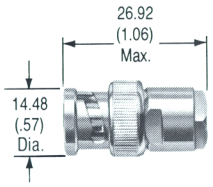

FIG. 1

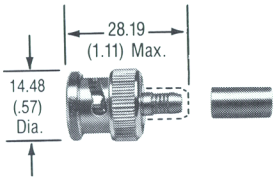

FIG. 2

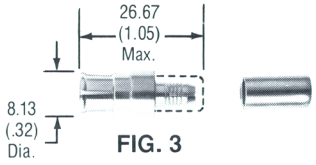

FIG. 3

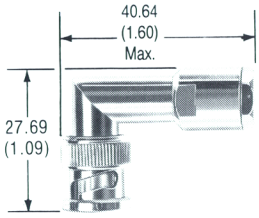

FIG. 4

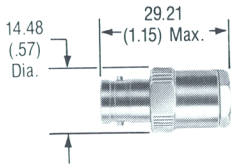

FIG. 5

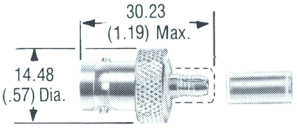

FIG. 6

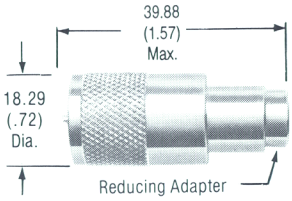

FIG. 7

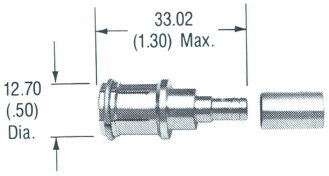

FIG. 8

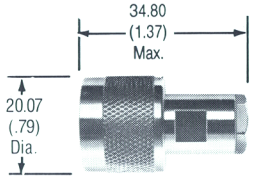

FIG. 9

TYPE	FIG.	Cable Group	MODEL	Special Features	LIST
BNC (m)	1	2, 3	4488		3.60
BNC (m)		4, 5	4786		4.55
BNC (m)		RG58	4997	Field Servicable	6.85
BNC (m)		RG59	4998		7.50
BNC (m)		RG174	4999		12.30
BNC (m)		4, 5	5079	75 Ohm (a) Impedance	8.25
BNC (m)		6	5307		8.65
BNC (m)	2	3	5285		3.40
BNC (m)		4	5286		3.60
BNC (m)	3	3	5152	Push-on	4.55
BNC (m)	4	2, 3	4977		16.10
BNC (f)	5	2, 3	4978		4.00
BNC (f)		4, 5	5061		6.35
BNC (f)	6	3	5344		6.30
BNC (f)		4	5345		8.60
UHF (m)	7	1	4893	Non constant Impedance	6.80
"F" (m)	8	4, 5	5296	75 Ohm (a) Imp, Push-on	3.15
"N" (m)	9	2, 3	4787	1000 VRMS Max. Operating Volt.	6.80
"N" (m)	11	1	4980		7.15
"N" (f)	13	1	4981		6.85
TNC (m)	10	2, 3	4960		8.85
TNC (m)		4, 5	5282		9.75
TNC (f)	12	4, 5	5283		8.60
TNC (f)		2, 3	5284		7.75

(a) Standard BNC interface

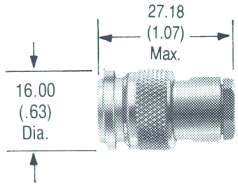

FIG. 10

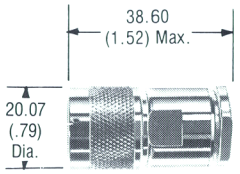

FIG. 11

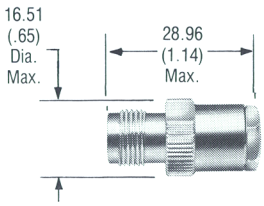

FIG. 12

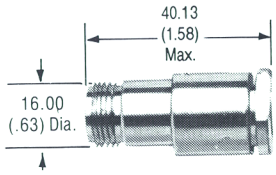

FIG. 13

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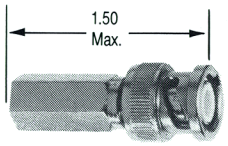
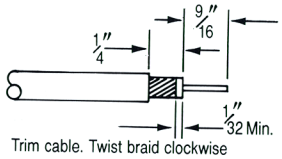
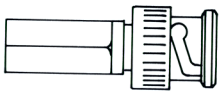
BNC MALE "TWIST ON" CABLE PLUG FOR RG59 & 62 CABLE

These connectors offer a quick and inexpensive solution for assembly in the field. Simply strip the cable to the center conductor and insert into the connector.
SHELL: Die cast zinc alloy. Nickel plated.
INSULATION: Thermoplastic.
CENTER CONTACT: Beryllium copper, nickel plated.
RATING: 500 VRMS Max., Impedance: 50 Ohms.





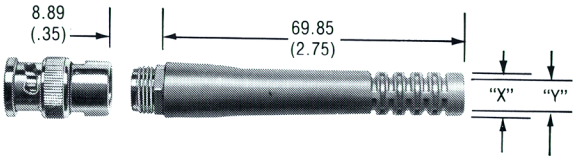
Trim cable. Twist braid clockwise and expose dielectric to dim. shown.


Insert center conductor into connector and push as far as possible. Screw connector clockwise onto cable.

MODEL	
5439	LIST 5.45

BNC MALE WITH STRESS RELIEF BOOT

Make your own stress relieved cable. This model attaches to the end of a cable in the same way as an ordinary BNC connector.
BOOT: PVC.
BNC MALE: Body, brass, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Oms.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

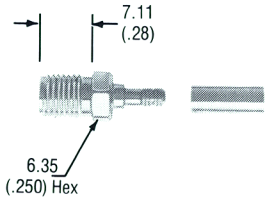


MODEL	Fits Cable Types	Cable O.D.	"X" Dim.	"Y" Dia.	LIST
5066-*	RG 58, 141	4.70 (.185)-5.08 (.200)	9.91 (.39)	5.33 (.21)	5.70
5067-*	RG 59, 62, 210	6.02 (.237)-6.27 (.247)	9.91 (.39)	6.60 (.26)	5.70
5068-*	RG 174, 187, 188	2.29 (.090)-2.79 (.110)	6.60 (.26)	3.05 (.12)	10.30

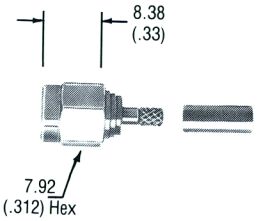
SMA CABLE PLUGS/JACKS

SHELL: Passivated Steel.
INSULATION: Teflon.

MODEL	Fits Cables RG	LIST
4804	174, 179, 187, 188, 316	13.80
4805		17.50
4859	55, 142, 223	13.70
4860		17.60



MODELS 4805 & 4860
SMA (f)



MODELS 4804 & 4859
SMA (m)

Note: Cabling instructions furnished on request.

SMC AND SMB CONNECTORS

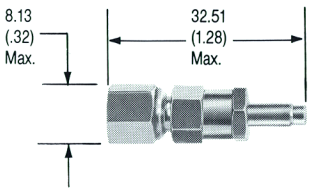
SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated.
RATING: 335 VRMS Max., Impedance: 50 Ohms.

FREQUENCY RANGE: 0-4 GHz.
TEMPERATURE RANGE: -65°C. (-85°F.) to +165°C. (+329°F.)
THREAD: 10-32 UNF.

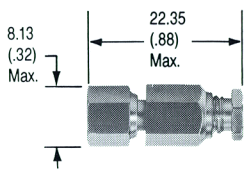
	CABLE GROUPS-RG/U
1	174, 179, 187, 188, 316
2	58, 142, 223

SMC CABLE PLUG/JACK

The SMC (Subminiature 'C') connectors feature a "screw-on" shell.

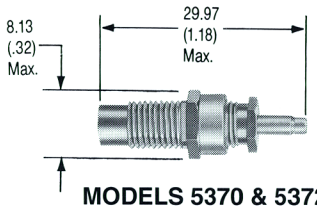


MODELS 5366 & 5368
CABLE PLUG (Female)
CRIMP TYPE

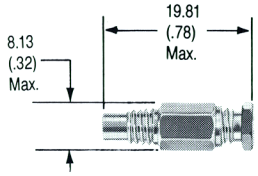


MODELS 5367 & 5369
CABLE PLUG (Female)
CLAMP TYPE

MODEL	Cable Group	LIST
5366	1	9.10
5367		12.60
5368	2	9.15
5369		12.60
5370	1	10.05
5371		10.10
5372	2	10.05
5373		10.05



MODELS 5370 & 5372
CABLE JACK (Male)
CRIMP TYPE



MODELS 5371 & 5373
CABLE JACK (Male)
CLAMP TYPE

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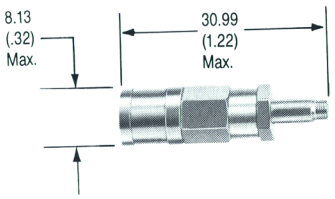
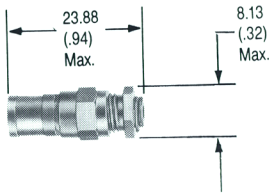
SMB CABLE PLUGS/JACKS

The SMB (Subminiature "B") connectors snap together for quick assembly.

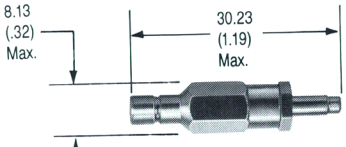


MODELS 5375 & 5377
CABLE PLUG (Female)
CRIMP TYPE

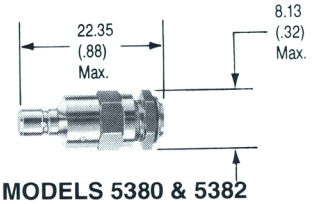


MODELS 5376 & 5378
CABLE PLUG (Female)
CLAMP TYPE

MODEL	Cable Group	LIST
5375	1	11.50
5376		12.90
5377	2	11.40
5378		12.95
5379	1	9.15
5380		10.00
5381	2	9.15
5382		10.05

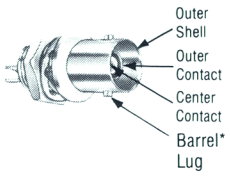


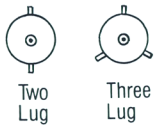
MODELS 5379 & 5381
CABLE JACK (Male)
CRIMP TYPE



MODELS 5380 & 5382
CABLE JACK (Male)
CLAMP TYPE

TRIAXIAL CONNECTORS





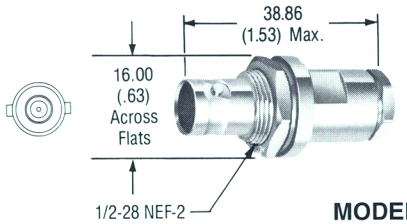
*Two lug model is shown. On units having three lugs, the spacing is 120°.

Triaxial connectors accommodate the need for low level signal patching and balanced line applications. Designed for use with double shielded single conductor or shielded twisted pair cable. These connectors feature a concentric design with center contact, outer contact and outer shell (see photo). This concentric design does not require matching of halves such as the polarized stepped insulator connectors.

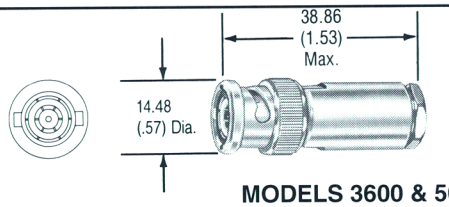
CABLE PLUGS/JACKS

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass, Female, beryllium copper. Gold plated per requirements of MIL-C-49142.
RATING: 500 VRMS Max., Frequency Range: DC to 500 MHz, -65°C. (-85°F.) to +165°C. (+329°F.)

See page 88 for Cabling Instructions.

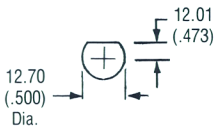


MODEL 4661
TRIAX (f)

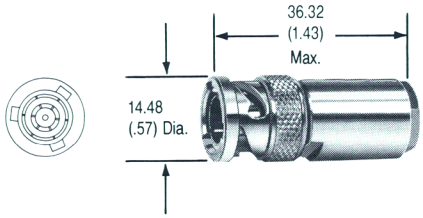


MODELS 3600 & 5056
TRIAX (m)

MODEL	Special Features		Fits Cable Types†	LIST
3600	2 Lug	78 Ohms	Belden 9272 6.15 (.242) O.D.	14.75
4661			Microdot 293-3930 4.45 (.175) O.D.	35.50
5056		50 Ohms	Belden 9222 6.15 (.242) O.D.	17.55
5218	3 Lug			19.00



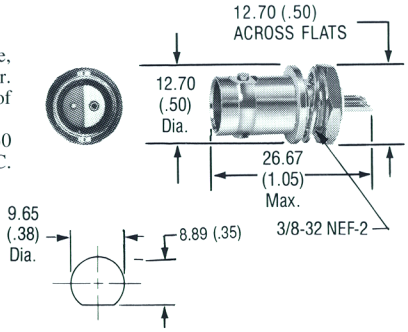
Max. Panel Thickness
3.05 (.12)
Panel Cutout
for Model 4661



MODEL 5218
TRIAX (m)

TWINAX BULKHEAD RECEPTACLE

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated per requirements of MIL-C-3655.
RATING: Panel Thickness: 3.30 (.13). 500 VRMS Max., -65°C. (-85°F.) to +165°C. (+329°F.)

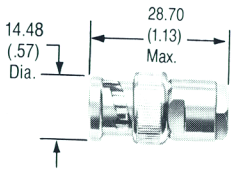


MODEL
4958

LIST 19.55

TWINAX MALE CABLE PLUG

SHELL: Brass, tarnish resistant plated.
INSULATION: Teflon.
CENTER CONTACT: Male, brass. Female, beryllium copper. Gold plated per requirements of MIL-C-3655.
RATING: 500 VRMS Max., -65°C. (-85°F.) to +165°C. (+329°F.)
CABLE TYPES: RG108 and Belden 9272.



MODEL
4957

See page 88 for Cabling Instructions.

LIST 31.05

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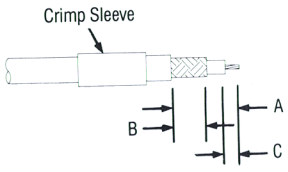
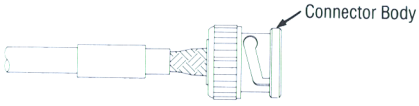
CABLING INSTRUCTIONS

MODELS 5285, 5286, 5344 & 5345

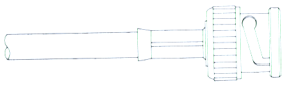


Cut cable end square. Slide crimp sleeve over jacket. Strip cable to dimensions A, B, and C.

Solder contact to center conductor of cable.



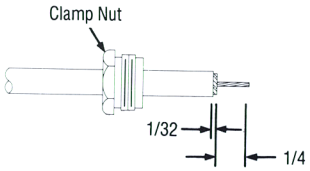
Slide connector body over center contact & push barrel beneath braid.



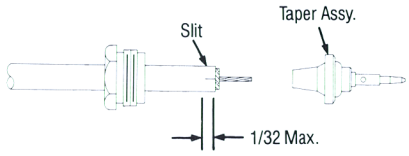
Slide crimp sleeve forward over braid & seat against connector body. Crimp with hex crimp die as listed.

MODEL	A	B	C	Hex Die Size
5285 5344	.58	.19	.11	.213 (Model 5540)
5286 5345	.58	.19	.11	.255 (Model 5541)

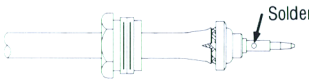
MODELS 4997, 4998 & 4999



Cut cable end square. Slide crimp sleeve over jacket. Strip cable to dimensions shown.



Slit jacket if necessary & slide taper assembly under braid & seat against shoulder.

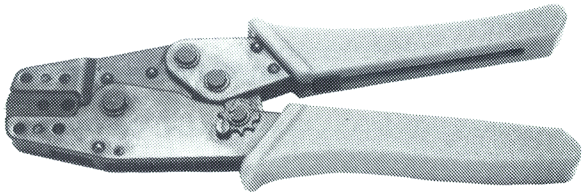


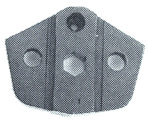
Solder contact to center conductor.

Place connector body over cable assembly. Slide clamp nut forward and thread into body. Tighten nut to 35-40 inch pounds.

CRIMP TOOL AND DIES

This crimping tool is designed to accommodate Pomona's most popular connector sizes. The dies are sold separately allowing each tool assembly to be tailored to the application.





Die

MODEL	Crimp Tool (Handle only)	LIST
5539		65.00

MODEL	Dies	LIST
5540	RG58	65.00
5541	RG59	65.00
5542	RG174	65.00

MODEL NO.	Use With Pomona Connector Model Nos.
5540	4859, 4860, 5152, 5285, 5288, 5368, 5344, 5372, 5377 & 5381
5541	5286, 5296, 5345, 4957
5542	4804, 4805, 5366, 5370, 5375 & 5379

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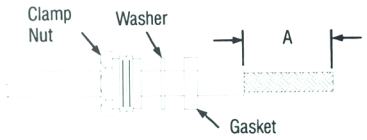
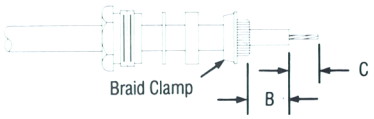
CABLING INSTRUCTIONS

MODELS 4488, 4786, 4787, 4977 4978, 4980, 4981, 5061, 5066, 5067, 5068 & 5307

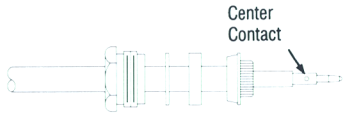


Cut cable end square. Slide clamp nut, washer & gasket over jacket. Strip jacket to dim. A.



Comb braid forward. Slide braid clamp over braid against jacket. Fold braid back over braid clamp and trim. Cut Dieletric & Center Conductor to dimensions B & C.

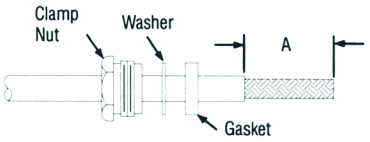
Models 5061 and 4786 - Slide bushing insulator over center conductor and seat against dieletric.



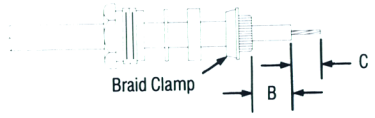
Solder center contact (male or female) to center conductor.

Place connector body over cable assembly. Slide clamp nut, washer & gasket forward against braid clamp. Thread clamp nut onto body & tighten.

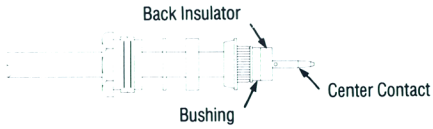
MODEL 5079



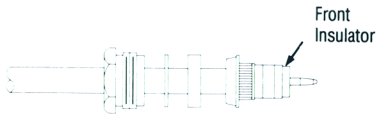
Cut cable end square. Slide clamp nut, washer & gasket over jacket. Strip jacket to dim. A.



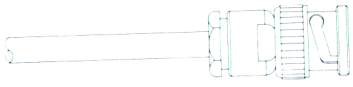
Comb braid forward. Slide braid clamp over braid against jacket. Fold braid back over braid clamp and trim. Cut Dieletric & Center Conductor to dimensions B & C.



Slide bushing & back insulator over dielectric & seat against braid. Solder contact to center conductor.



Place front insulator over contact & seat against back insulator.



Place connector body over cable assembly. Slide clamp nut, washer & gasket forward against braid clamp. Thread clamp nut onto body & tighten.

MODEL NO.	A	B	C	Conn. Type / Nom. Cable Dia.	Clamp Nut Torque (in-lb)
4488	11/32	3/16	.11	BNC (M) / .195	35-40
4786	11/32	3/16	.11	BNC (M) / .242	35-40
4787	7/16	.118	7/32	N (M) / .195	70-80
4977	5/16	.11	.11	BNC (M) RA / .195	35-40
4978	11/32	3/16	.11	BNC (F) / .195	35-40
4980	3/8	.05	.19	N (M) / .425	70-80
4981	3/8	.05	.19	N (F) / .425	70-80
5061	11/32	3/16	.11	BNC (F) / .242	35-40
5066	11/32	3/16	.11	BNC (M) / .195	35-40
5067	11/32	3/16	.11	BNC (M) / .242	35-40
5068	11/32	3/16	.11	BNC (M) / .100	35-40
5079	.31	.11	.14	BNC (M) 75 Ohms / .242	35-40
5307	11/32	3/16	.11	BNC (M) / .100	35-40

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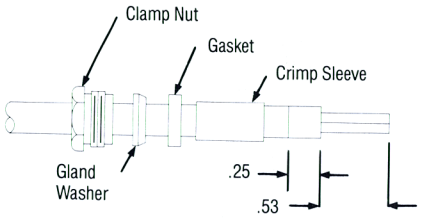
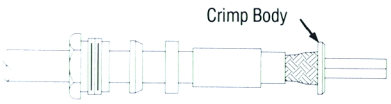
CABLING INSTRUCTIONS

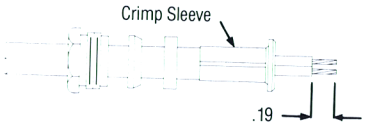
MODEL 4957



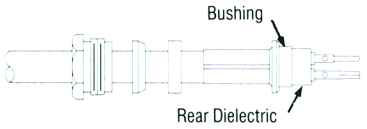
Cut cable end square. Slide clamp nut, gland washer, gasket & crimp sleeve over jacket. Cut cable jacket to dimension shown; do not nick braid. Remove .53 length of jacket.



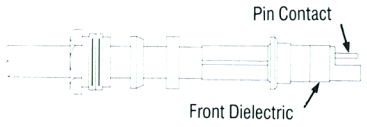
Remove .25 length of jacket. Flair out braid slightly and push crimp body over conductors & under braid.



Slide crimp sleeve over braid to edge of crimp body and crimp using .255 Hex Die (see Model 5541, page 86). Trim center conductors to dimension shown.



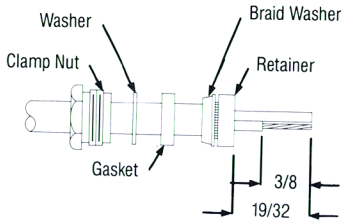
Slide bushing and rear dielectric over center conductors. Solder contacts to conductors.



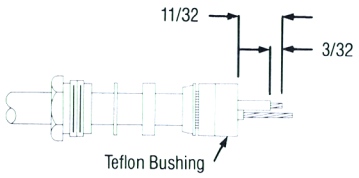
Slide front dielectric over contacts.

Place connector body over cable assembly. Slide clamp nut, gland washer & gasket forward to body. Tighten nut to 35-40 inch punds.

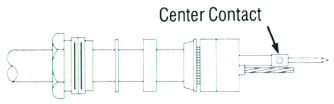
MODEL 3600



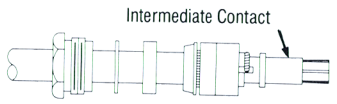
Cut cable end square. Slide clamp nut, washer & gasket over jacket. Strip jacket to 3/4". Fold braid back and trim filler. Slide braid clamp over braid against jacket. Fold braid over braid clamp and trim. Assemble retainer and strip blue conductor as shown.



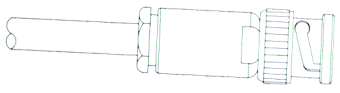
Assemble teflon bushing and strip white conductor as shown.



Solder center contact to white conductor.

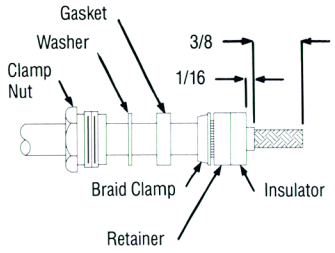


Insert center contact into inner insulator. Slide intermediate contact over insulator. Wrap conductor around intermediate contact and solder.

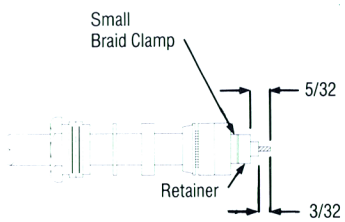


Slide outer insulator over intermediate contact. Thread assembly into body and tighten clamp nut to 35-40 inch pounds.

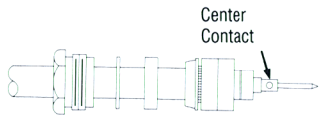
MODEL 5218 & 5056



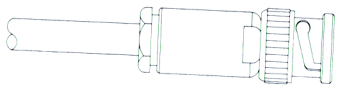
Cut cable end square. Slide clamp nut, washer & gasket over jacket. Strip jacket to 3/4". Fold braid back and trim filler. Slide braid clamp over braid against jacket. Fold braid over braid clamp and trim. Assemble retainer and insulator over inner jacket. Trim inner jacket as shown.



Place small braid clamp over inner braid and against inner jacket. Comb out braid and fold back over braid clamp. Trim even with base of braid clamp. Place small retainer over dielecric, against inner braid clamp. Trim dielectric and center conductor as shown.



Solder center contact to white conductor.



Place inner insulator, intermediate contact and outer insulator over center contact. Thread assembly into body and tighten clamp nut.

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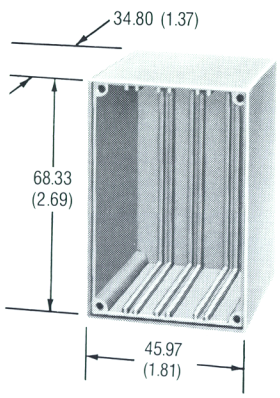
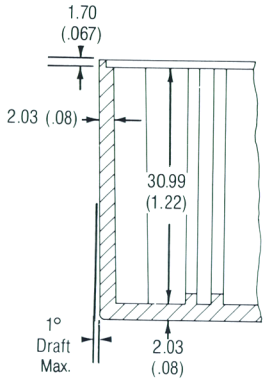
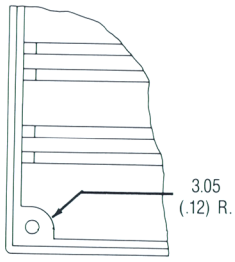
MOLDED THERMOPLASTIC BOX WITH CARD GUIDES

The box and cover are molded of glass filled nylon which is almost unbreakable under normal use. Box and cover are easily machined. Three slots are provided for 1.57 (.062) circuit boards (not included).
HOUSING: Glass filled nylon.
COVER: Glass filled nylon. Includes 4 self-tapping #2-32 cover screws.
RATING: +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -6 Blue, -9 White.

Recommended circuit board size:
63.75 (2.51) X 30.99 (1.20) X 1.57 (.062) thick.







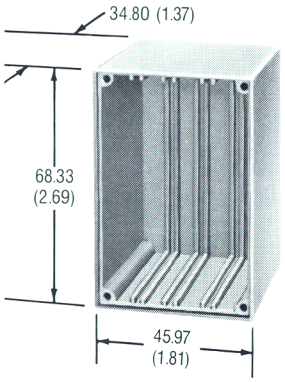
MODEL
3850-*

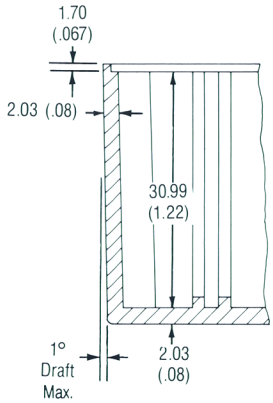
LIST 3.60

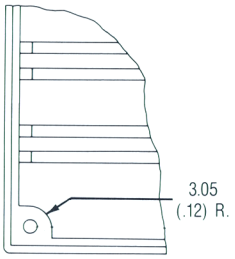
MOLDED STATIC CONTROL THERMOPLASTIC BOX WITH CARD GUIDES

The box and cover are molded of STAT-KON† nylon which prevents electrostatic buildup. Three slots are provided for 1.57 (.062) circuit boards (not included).
HOUSING: STAT-KON†, black.
COVER: STAT-KON†, black. Includes 4 self-tapping #2-32 cover screws.
RATING: +104°C. (+219°F.) Max.; Surface Resistivity: 10^9 Ohm-cm^2.

Recommended circuit board size:
63.75 (2.51) X 30.99 (1.20) X 1.57 (.062) thick.







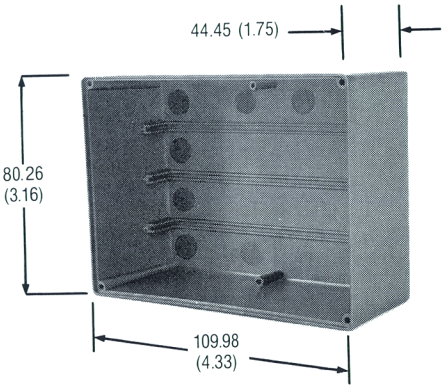
MODEL
4902

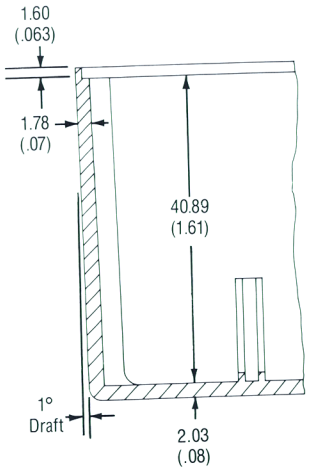
LIST 4.60

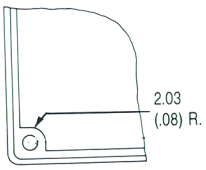
MOLDED THERMOPLASTIC BOX WITH CARD GUIDES

Box and cover are molded of glass filled nylon which is almost unbreakable under normal use. Three slots are provided to permit lengthwise mounting of 1.57 (.062) circuit boards (not included). Boards may also be mounted horizontally.
HOUSING: Glass filled nylon.
COVER: Glass filled nylon. Includes 4 self-tapping #2-32 cover screws.
RATING: +102°C. (+219°F.) Max.
***STD COLORS:** -0 Black, -6 Blue.

Recommended circuit board size:
Vertical: 99.82 (3.93) X 40.13 (1.58) X 1.57 (.062) thick.
Horizantal: 99.06 (3.90) X 75.69 (2.98) X 1.57 (.062) thick.







MODEL
4384-*

LIST 6.05

† STAT-KON is a trademark of LNP Engineering.

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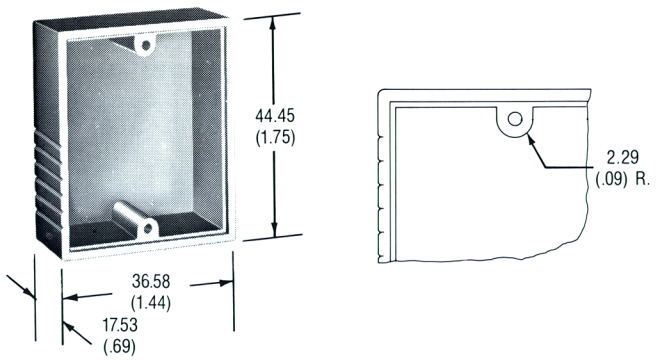
Create passive and active networks, voltage dividers, isolation networks or attenuators with these units. Solder turret terminals for permanent noise-free connection of components, etc. Entire unit may be potted or encapsulated.

PHENOLIC BOX, JUNIOR SIZE

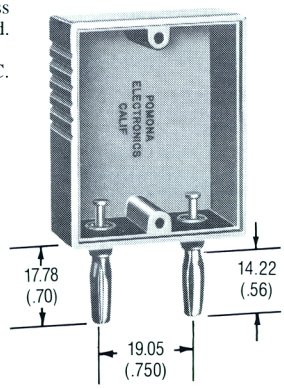
HOUSING: Phenolic, black.
COVER: XP laminated paper base phenolic, black.
Includes 2 #2-56 cover screws.
RATING: +150°C. (+302°F.) Max.



MODEL	LIST
2105	2.45

COMPONENT MOUNTING BOX, DOUBLE BANANA PLUG

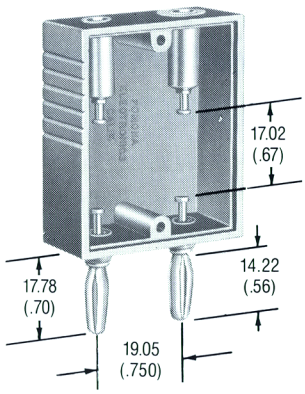
See Model 2105 (above) for housing dimensions.
1ST END: None.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. (Supplied with cover and cover screws.)
RATING: 5000 WVDC, 15 Amps, +150°C. (+302°F.) Max.



MODEL	LIST
2096	5.95

COMPONENT MOUNTING BOX, DOUBLE BANANA JACK TO DOUBLE BANANA PLUG

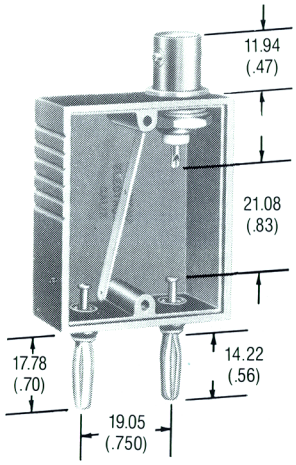
See Model 2105 (above) for housing dimensions.
1ST END: Double Banana Jack. Brass, bright tin plated.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 5000 WVDC, 15 Amps, +150°C. (+302°F.) Max.



MODEL	LIST
2098	10.35

COMPONENT MOUNTING BOX, BNC FEMALE TO DOUBLE BANANA PLUG

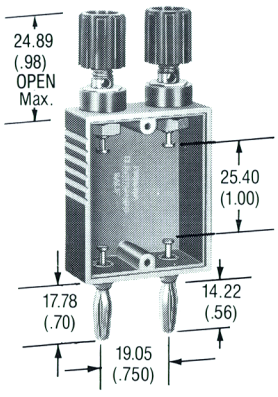
See Model 2105 (above) for housing dimensions.
1ST END: BNC Female with extra long solder tab for ground connection. Nominal Impedance: 50 Ohms.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 500 VRMS, +150°C. (+302°F.) Max.



MODEL	LIST
2097	14.80

COMPONENT MOUNTING BOX, BINDING POSTS TO DOUBLE BANANA PLUG

See Model 2105 (above) for housing dimensions.
1ST END: Double Binding Post. Brass, bright tin plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max.



MODEL	LIST
2259	12.90

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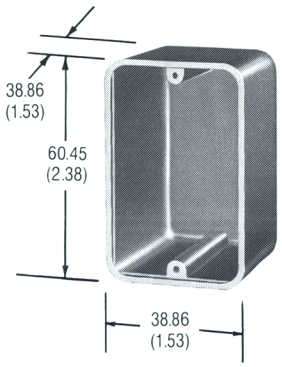
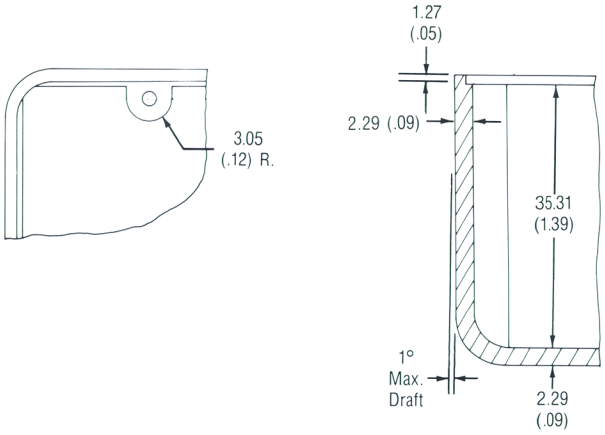
PHENOLIC BOX, KING SIZE

HOUSING: Phenolic, black.
COVER: XP laminated paper base phenolic, black.
Includes 2 #2-56 cover screws.
RATING: +150°C. (+302°F.) Max.

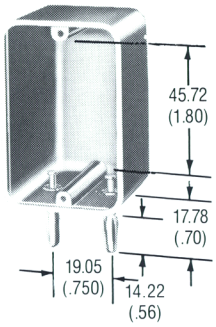




MODEL	LIST
2104	2.10

COMPONENT MOUNTING BOX, DOUBLE BANANA PLUG

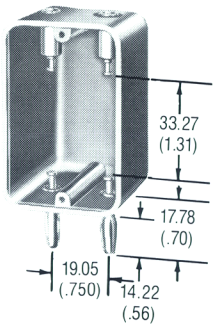
See Model 2104 for housing dimensions.
1ST END: None.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. (Supplied with cover and cover screws.)
RATING: 5000 WVDC, 15 Amps, +150°C. (+302°F.) Max.



MODEL	LIST
1177	6.30

COMPONENT MOUNTING BOX, DOUBLE BANANA JACK TO DOUBLE BANANA PLUG

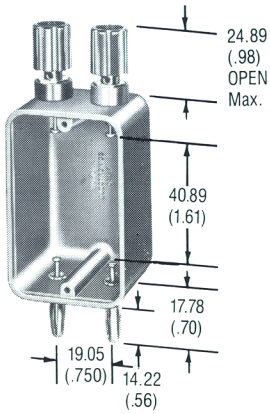
See Model 2104 for housing dimensions.
1ST END: Double Banana Jack. Brass, bright tin plated.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 5000 WVDC, 15 Amps, +150°C. (+302°F.) Max.



MODEL	LIST
2224	9.80

COMPONENT MOUNTING BOX, BINDING POSTS TO DOUBLE BANANA PLUG

See Model 2104 for housing dimensions.
1ST END: Double Binding Post. Brass, bright tin plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 2500 WVDC, 15 Amps, +115°C. (+239°F.) Max.



MODEL	LIST
2262	13.75

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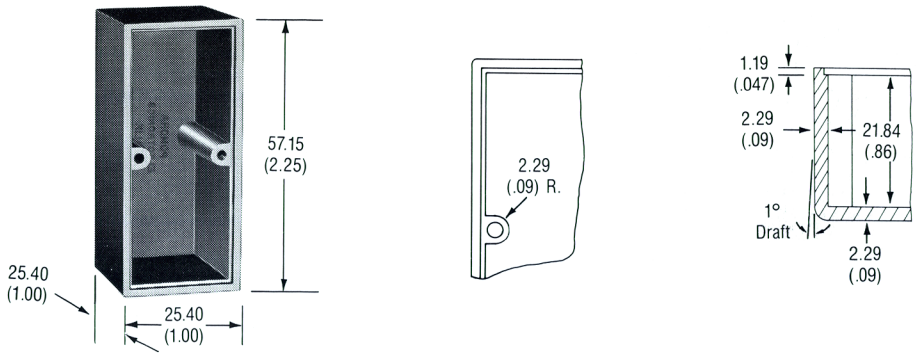
PHENOLIC BOX, QUEEN SIZE

HOUSING: Phenolic, black.
COVER: XP laminated paper base phenolic, black.
Includes 2 #2-56 cover screws.
RATING: +150°C. (+302°F.) Max.

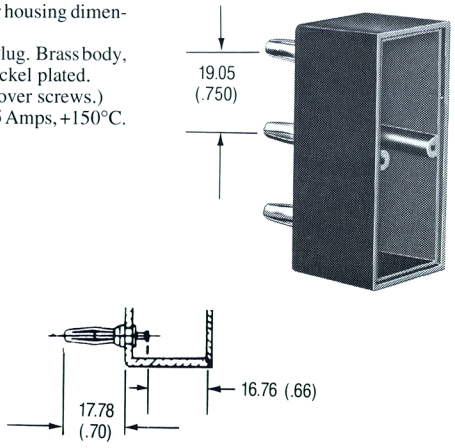


MODEL 2103

LIST 2.20

COMPONENT MOUNTING BOX, THREE BANANA PLUGS

See Model 2103 (above) for housing dimensions.
CENTER: Triple Banana Plug. Brass body, beryllium copper spring, nickel plated. (Supplied with cover and cover screws.)
RATING: 5000 WVDC, 15 Amps, +150°C. (+302°F.) Max.

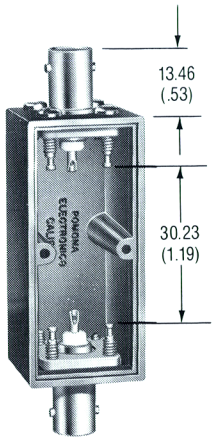


MODEL 2095

LIST 9.65

COMPONENT MOUNTING BOX, BNC FEMALE BOTH ENDS

See Model 2103 (above) for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

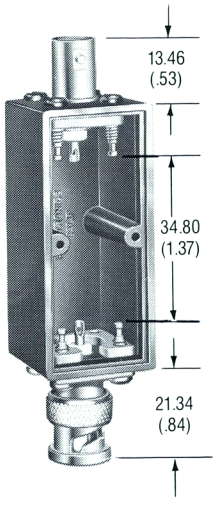


MODEL 2101

LIST 20.60

COMPONENT MOUNTING BOX, BNC FEMALE TO BNC MALE

See Model 2103 (above) for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS, +150°C. (+302°F.) Max.

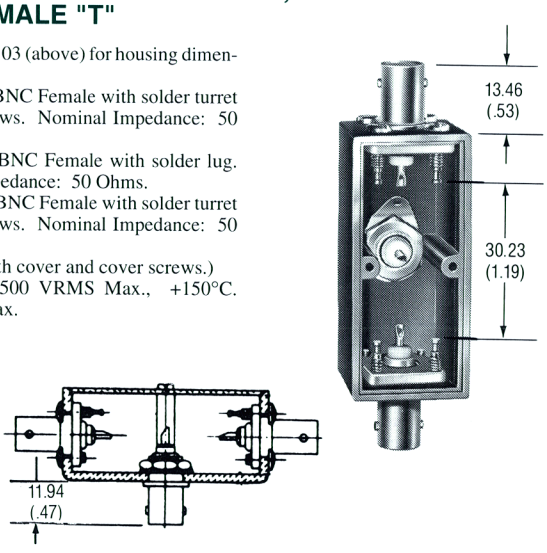


MODEL 2099

LIST 26.55

COMPONENT MOUNTING BOX, BNC FEMALE "T"

See Model 2103 (above) for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: BNC Female with solder lug. Nominal Impedance: 50 Ohms.
2ND END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2102

LIST 29.20

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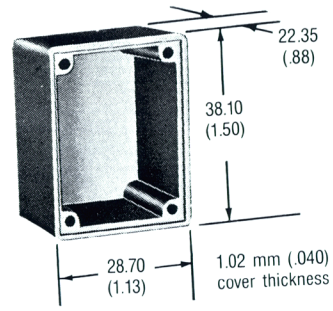
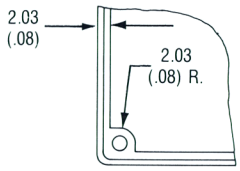
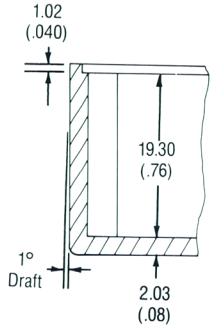
DIE CAST ALUMINUM BOXES
MINIATURE SIZE

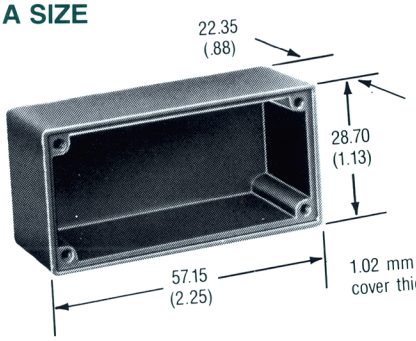


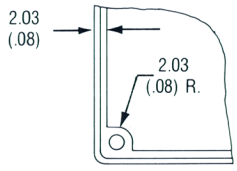


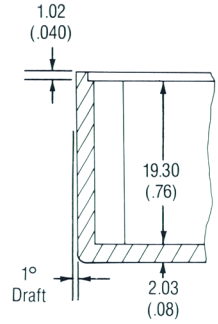


Use Model 4742 as replacement cover.
Use Model 3729 as mounting cover.
Includes 2-32 X 1/4 panhead screws.

A SIZE

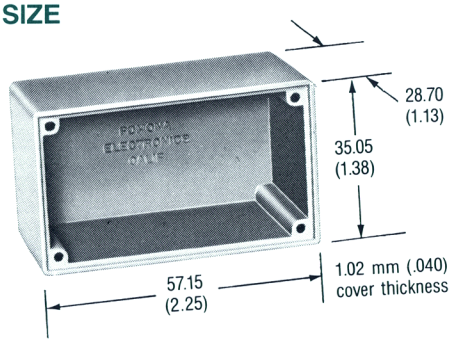


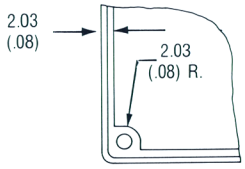


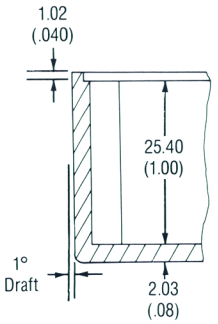


Use Model 4245 as replacement cover.
Use Model 3728 as mounting cover.
Includes 2-32 X 1/4 panhead screws.

B SIZE

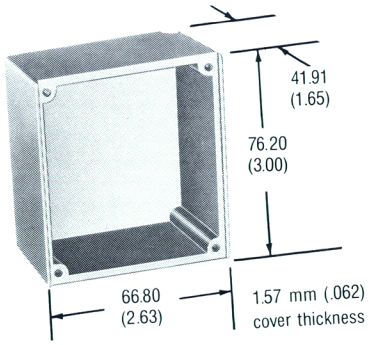


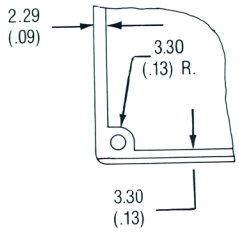


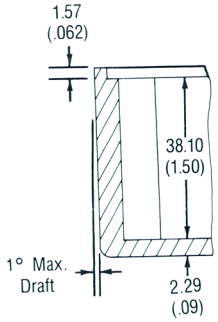


Use Model 4246 as replacement cover.
Use Model 3719 as mounting cover.
Includes 2-32 X 1/4 panhead screws.

D SIZE







Use Model 4726 as replacement cover.
Use Model 3958 as mounting cover.
Includes 4-40 X 1/4 Phillips screws.

MODEL	Box Size	Finish	LIST
3753	Miniature	Blue Baked Enamel	5.45
3754		None	5.25
2397	A	Blue Baked Enamel	5.45
2400		None	5.00
2417	B	Blue Baked Enamel	5.60
2428		None	5.35
3601	C	Blue Baked Enamel	10.00
3606		None	9.70

These boxes are available either with a blue baked enamel finish or with no finish at all. When used with the included cover, the boxes provide excellent RFI / EMI protection.
HOUSING: Die cast aluminum, alloy A380 or A384. Blue baked enamel per Federal Standard 595 #25109 over primer wash per DOD-P-15328 or no finish.
COVER: Aluminum 1100-H14, with clear anodized finish per MIL-A-8625.

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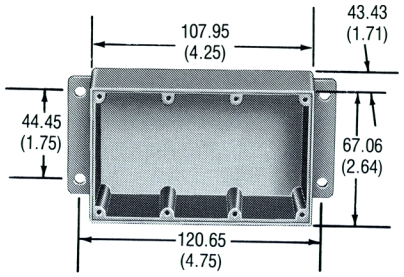
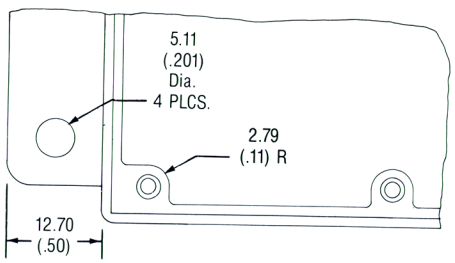
DIE CAST ALUMINUM BOXES

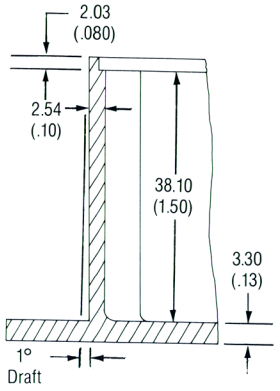
C SIZE



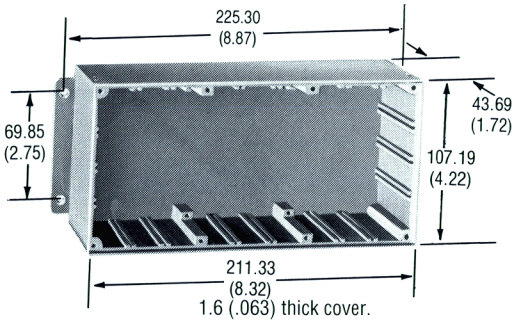
2.0 (.080) thick cover.



Use Model 4248 as replacement cover.
Includes 4-40 X 1/4 panhead screws.

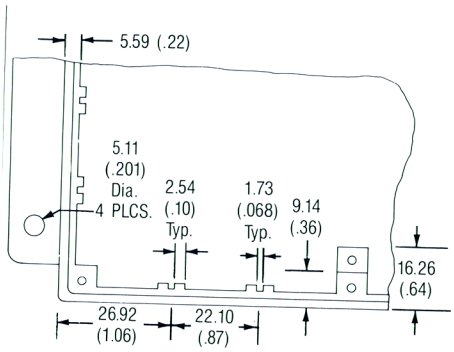


E SIZE

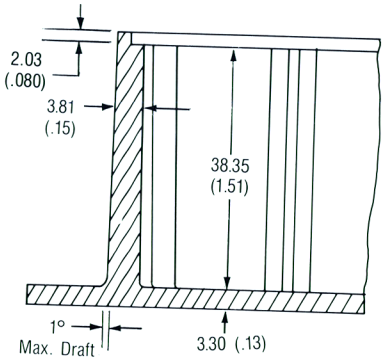


1.6 (.063) thick cover.

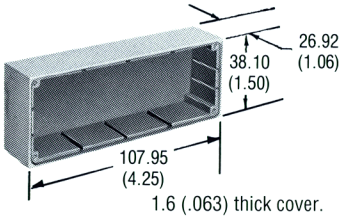
Recommended circuit board sizes:
Vertical: 203.2 (8.00) x 37.9 (1.49) x 1.6 (.062) thick.
99.1 (3.90) x 37.9 (1.49) x 1.6 (.062) thick.
Horizontal: 193.0 (7.60) x 86.4 (3.40) x 1.6 (.062) thick.



Use Model 4416 as replacement cover.
Includes 4-40 X 1/4 Phillips binding head cover screws.

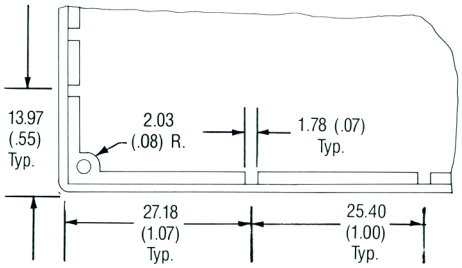


J SIZE

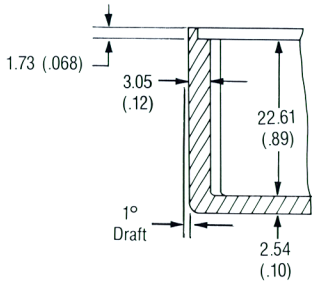


1.6 (.063) thick cover.

Recommended circuit board sizes:
104.9 (4.13) x 22.1 (.87) x 1.6 (.062) thick.
35.1 (1.38) x 22.1 (.87) x 1.6 (.062) thick.

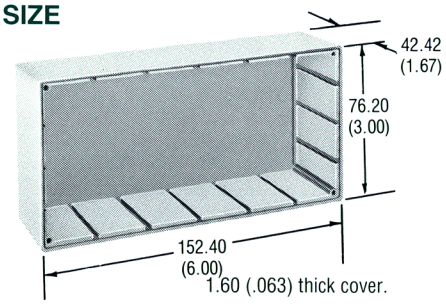


Includes 2-32 X 1/4 panhead screws.

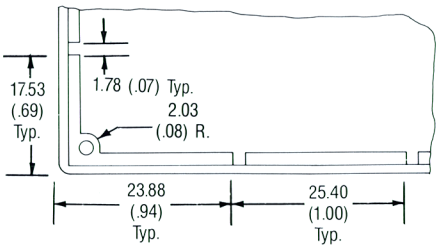


Use Model 4658 as replacement cover.

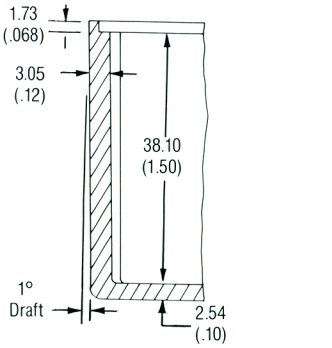
L SIZE



1.60 (.063) thick cover.



Use Model 5198 as replacement cover.
Includes 2-32 X 1/4 panhead screws.



MODEL	Box Size	Finish	LIST
2901	C	Blue Baked Enamel	13.85
2906		None	11.70
4226	E	Blue Baked Enamel	35.45
5186		None	33.45
4655	J	Blue Baked Enamel	17.10
5255		None	15.45
4903	L	Blue Baked Enamel	20.55
5203		None	20.10

Recommended circuit board sizes:
149.4 (5.88) x 37.6 (1.48) x 1.6 (.062) thick.
73.2 (2.88) x 37.6 (1.48) x 1.6 (.062)

These boxes are available either with a blue baked enamel finish or with no finish at all. When used with the included cover, the boxes provide excellent RFI/EMI protection.

HOUSING: Die cast aluminum, alloy A380 or A384. Blue baked enamel per Federal Standard 595 #25109 over primer wash per DOD-P-15328 or no finish. (See Table)
COVER: Aluminum 1100-H14, with clear anodized finish per MIL-A-8625. Includes cover screws.

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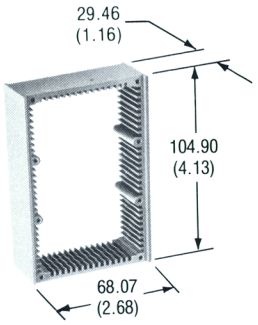
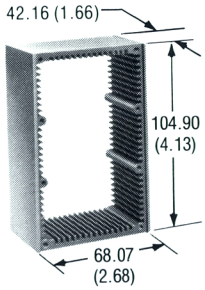
EXTRUDED ALUMINUM BOXES



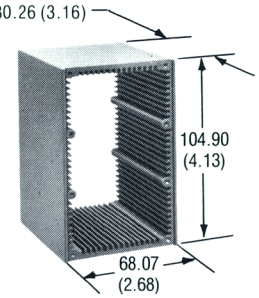
SIZE K

Recommended circuit board sizes:
99.1 (3.90) x 24.9 (.98) x 1.6 (.062) thick
60.9 (2.40) x 24.9 (.98) x 1.6 (.062) thick



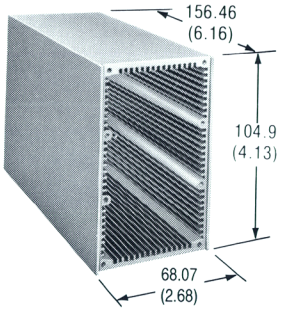
SIZE F

Recommended circuit board sizes:
99.1 (3.90) x 37.6 (1.48) x 1.6 (.062) thick
60.9 (2.40) x 37.6 (1.48) x 1.6 (.062) thick



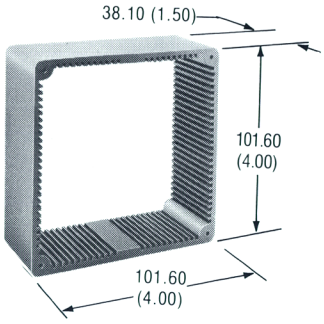
SIZE G

Recommended circuit board sizes:
99.1 (3.90) x 75.7 (2.98) x 1.6 (.062) thick
60.9 (2.40) x 75.7 (2.98) x 1.6 (.062) thick



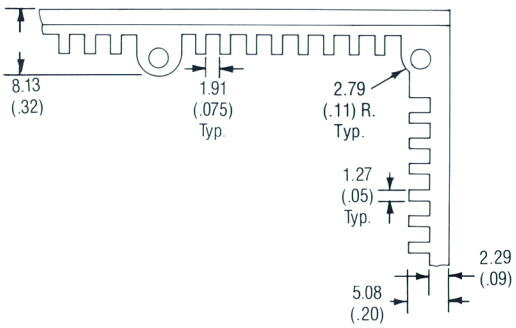
SIZE H

Recommended circuit board sizes:
99.1 (3.90) x 151.9 (5.98) x 1.6 (.062) thick
60.1 (2.40) x 151.9 (5.98) x 1.6 (.062) thick

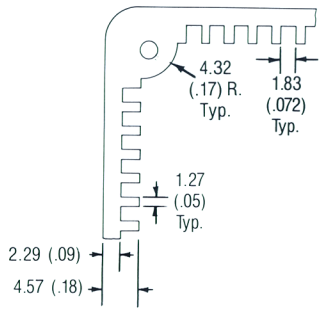


SIZE I

Recommended circuit board size:
95.5 (3.76) x 37.6 (1.48) x 1.6 (.062) thick



SIZES F, G, H & K



SIZE I

MODEL	Box Size	Finish	LIST
4720	K	Blue Baked Enamel	22.95
4739		None	20.65
3301	F	Blue Baked Enamel	21.60
3306		None	19.80
3311	G	Blue Baked Enamel	25.75
3316		None	24.45
3742	H	Blue Baked Enamel	31.75
3743		None	29.50
4641	I	Blue Baked Enamel	49.55

These boxes are slotted to accept 1.6 (.062) circuit boards and shielding dividers. They are available with a blue baked enamel finish or with no finish at all. When used with included covers, these boxes provide excellent EMI/RFI protection.

(Use Model 4247 as replacement cover for sizes F, G, H & K. Use Model 4631 as replacement cover for Size I. Use Model 3328 as mounting cover for Sizes F, G, H & K. Use Model 4642 as mounting cover for Size I.)

HOUSING: Extruded aluminum, alloy 6063-T5 or equivalent. Blue baked enamel per Federal Standard 595 #25109 over primer wash per DOD-P-15328 or no finish. (See Table)

COVERS: Top and bottom 2.0 (.080) thick aluminum 1100-H14, with clear anodized finish per MIL-A-8625. Includes #4-40 x 1/4" flathead screws.

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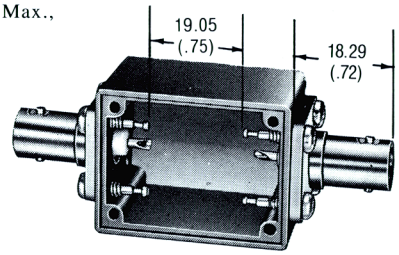
MINIATURE SIZE BOX, BNC FEMALE EACH END

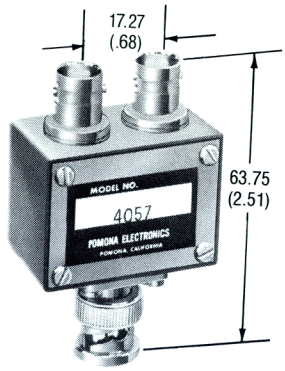
See Model 3753 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3751 **LIST 21.10**

MINIATURE SIZE BOX, TWO BNC FEMALES TO BNC MALE ("IN-LINE T")

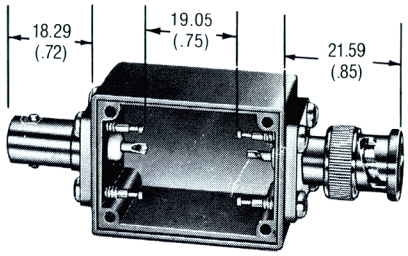
See Model 3753 for housing dimensions.
1ST END: BNC females. Nominal Impedance: 50 Ohms.
2ND END: BNC Male. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 4057 **LIST 32.35**

MINIATURE SIZE BOX, BNC FEMALE TO BNC MALE

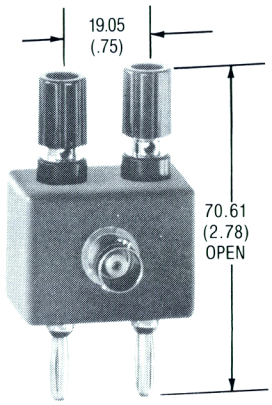
See Model 3753 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

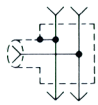


MODEL 3752 **LIST 19.95**

MINIATURE SIZE BOX, BINDING POSTS TO DOUBLE BANANA PLUG WITH BNC FEMALE

See Model 3753 for housing dimensions.
1ST END: Double Binding Post. Brass, bright tin plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
CENTER: BNC Female. Nominal Impedance: 50 Ohms.
2ND END: Double Banana Plugs. Brass body, beryllium copper spring, nickel plated.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +115°C. (+239°F.) Max.

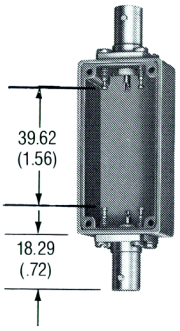




MODEL 4050 **LIST 42.00**

SIZE A BOX, BNC FEMALE EACH END

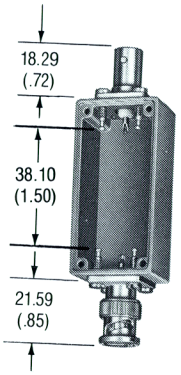
See Model 2397 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2390 **LIST 17.35**

SIZE A BOX, BNC FEMALE TO BNC MALE

See Model 2397 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2391 **LIST 19.55**

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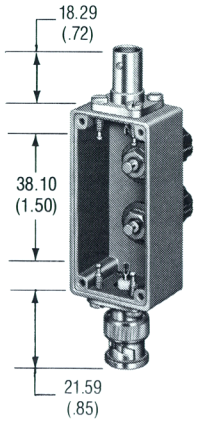
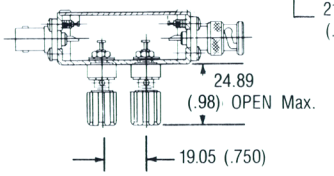
SIZE A BOX, BNC FEMALE TO BNC MALE WITH BINDING POSTS

See Model 2397 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: Double Binding Post with solder turret terminals. Brass, bright tin plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +115°C. (+239°F.) Max.

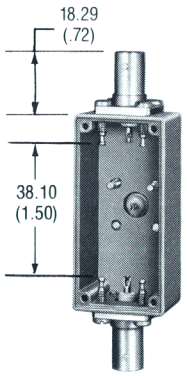


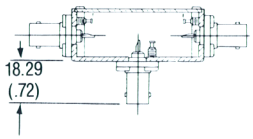


MODEL **2393** — **LIST 34.35**

SIZE A BOX, BNC FEMALE "T"

See Model 2397 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: Same as first end.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

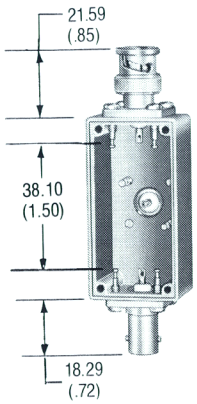


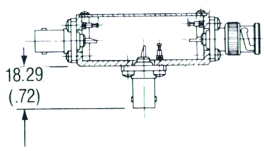


MODEL **2392** — **LIST 26.60**

SIZE A BOX, "T" TWO BNC FEMALES TO BNC MALE

See Model 2397 for housing dimensions.
1ST END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as center.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

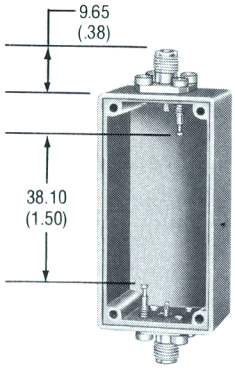




MODEL **2401** — **LIST 28.55**

SIZE A BOX, SMA FEMALE EACH END

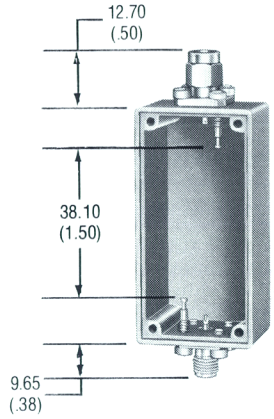
See Model 2397 for housing dimensions.
1ST END: SMA Female with solder turret terminal screw. Gold plated per requirements of MIL-C-39012. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 335 VRMS Max., +150°C. (+302°F.) Max.



MODEL **2399** — **LIST 42.35**

SIZE A BOX, SMA MALE TO SMA MALE

See Model 2397 for housing dimensions.
1ST END: SMA Male with solder turret terminal screw. Gold plated per requirements of MIL-C-39012. Nominal Impedance: 50 Ohms.
2ND END: SMA Female with solder turret terminal screw. Gold plated per requirements of MIL-C-39012. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 335 VRMS Max., +150°C. (+302°F.) Max.



MODEL **2398** — **LIST 68.75**

REPLACEMENT SCREWS

4862
Flathead, Phillips
4-40 NC-2A x .250
carbon steel, zinc plated

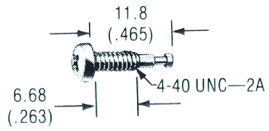
4864
Self-tapping, panhead, 2-32 x .250
carbon steel, zinc plated

LIST 11.50 PKG
(100 Per Pkg.)

MODEL	Used On
4862	3301, 3302, 3303, 3306, 3307, 3311, 3312, 3316, 3742, 3743, 4720, 4739
4864	2390, 2391, 2392, 2393, 2395, 2397, 2398, 2399, 2400, 2401, 2411, 2413, 2417, 2420, 2428, 3230, 3231, 3232, 3233, 3234, 3239, 3751, 3752, 3753, 3754, 3850, 4050, 4057, 4384, 4655, 4656, 4902, 4903, 5166, 5203, 5255, 5404

SOLDER TURRET TERMINAL SCREW

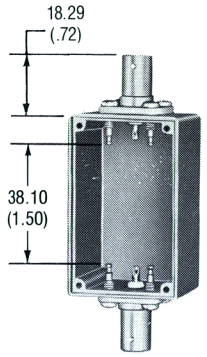
Excellent for mounting of panel receptacles. Turret on end of screw for soldering. #4-40 Phillips head.
MATERIAL: Steel.
FINISH: Cadmium plated.



MODEL **2352** — **LIST 43.50 PKG.**
(100 Per Pkg.)

SIZE B BOX, BNC FEMALE EACH END

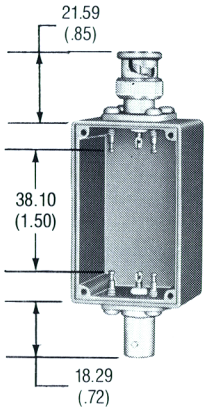
See Model 2417 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3230 **LIST 17.15**

SIZE B BOX, BNC MALE TO BNC FEMALE

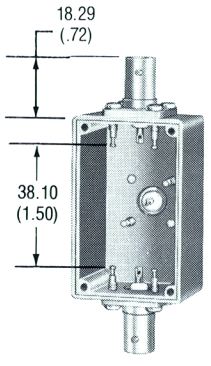
See Model 2417 for housing dimensions.
1ST END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

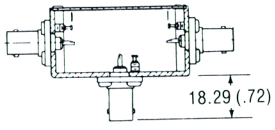


MODEL 3231 **LIST 20.80**

SIZE B BOX, BNC FEMALE "T"

See Model 2417 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: Same as first end.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

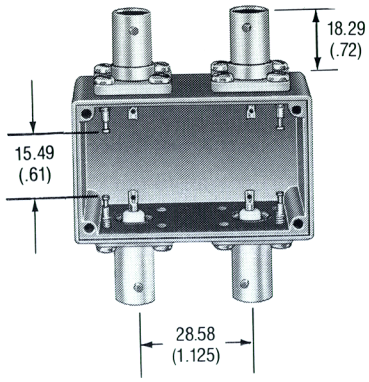




MODEL 3232 **LIST 27.50**

SIZE B BOX, CROSS CONNECTIONS

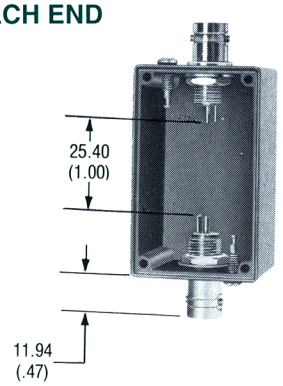
See Model 2417 for housing dimensions.
1ST END: BNC Females with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3234 **LIST 29.05**

SIZE B BOX, TRIAXIAL FEMALE EACH END

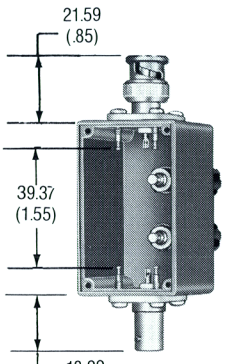
See Model 2417 for housing dimensions.
1ST END: Triaxial Female, two lug, with solder turret terminal screws.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.

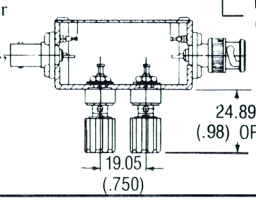


MODEL 5166 **LIST 36.60**

SIZE B BOX, BNC MALE TO BNC FEMALE WITH BINDING POSTS

See Model 2417 for housing dimensions.
1ST END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
CENTER: Double Binding Post with solder turret terminals. Brass, bright tin plated. Accepts standard banana plugs. Polycarbonate insulation. One black and one red.
2ND END: BNC Female with solder turret terminal screws. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +115°C. (+239°F.) Max.





MODEL 3233 **LIST 31.70**

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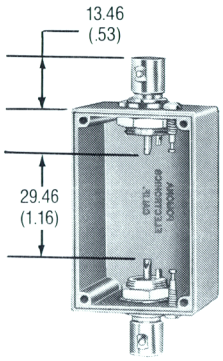
SIZE B BOX, ISOLATED BNC FEMALE EACH END

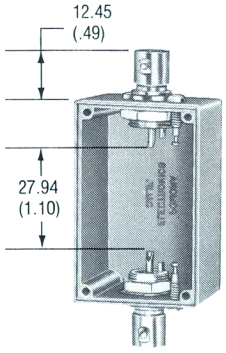
See Model 2417 for housing dimensions.
1ST END: Isolated BNC Female with solder turret terminal screw. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3239 — **LIST 28.65**

SIZE B BOX, ISOLATED 75 OHM BNC FEMALE EACH END

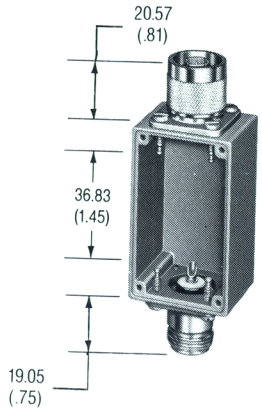
See Model 2417 for housing dimensions.
1ST END: Isolated 75 Ohm BNC Female with solder turret terminal screw.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 5404 — **LIST 24.95**

SIZE B BOX, TYPE "N" MALE TO TYPE "N" FEMALE

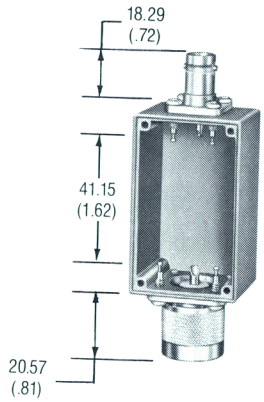
See Model 2417 for housing dimensions.
1ST END: Type "N" Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Type "N" Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 1000 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2411 — **LIST 34.45**

SIZE B BOX, BNC FEMALE TO TYPE "N" MALE

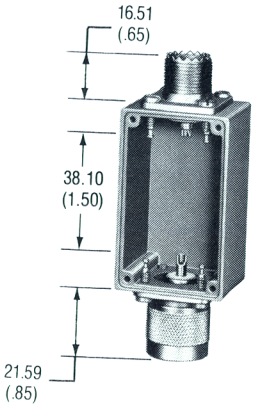
See Model 2417 for housing dimensions.
1ST END: BNC Female, two lug, with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Type "N" Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2420 — **LIST 34.45**

SIZE B BOX, UHF FEMALE TO UHF MALE

See Model 2417 for housing dimensions.
1ST END: UHF Female with solder turret terminal screws. Nominal Impedance: Nonconstant.
2ND END: UHF Male with solder turret terminal screws. Nominal Impedance: Nonconstant.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2413 — **LIST 36.60**

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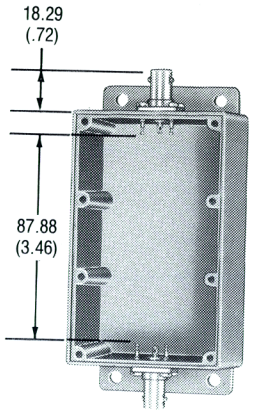
SIZE "C" COMPONENT MOUNTING BOX, BNC FEMALE EACH END

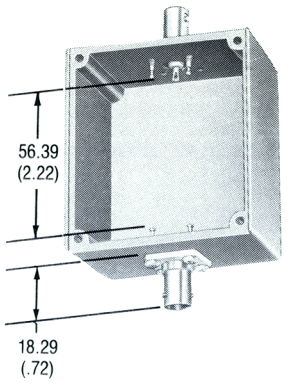
See Model 2901 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2902 — **LIST 27.55**

SIZE "D" COMPONENT MOUNTING BOX, BNC FEMALE EACH END

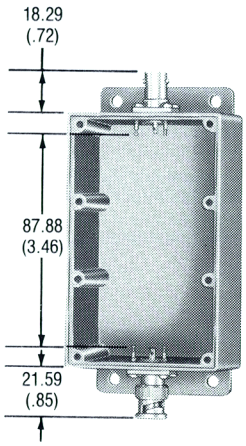
See Model 3601 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3602 — **LIST 22.90**

SIZE "C" COMPONENT MOUNTING BOX, BNC FEMALE TO BNC MALE

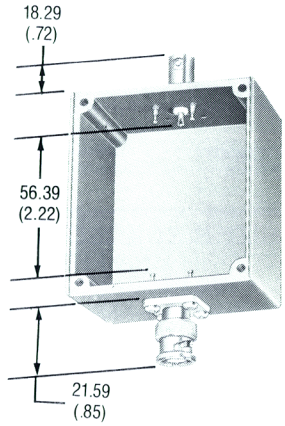
See Model 2901 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 2903 — **LIST 29.80**

SIZE "D" COMPONENT MOUNTING BOX, BNC FEMALE TO BNC MALE

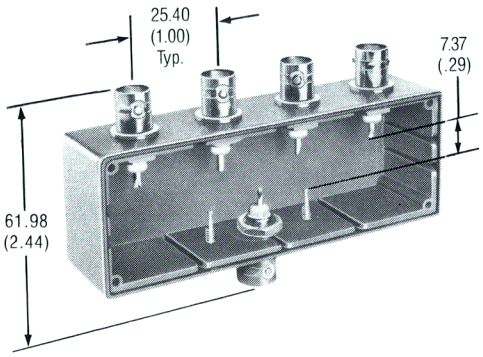
See Model 3601 for housing dimensions.
1ST END: BNC Female, with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 3603 — **LIST 26.50**

SIZE "J" COMPONENT MOUNTING BOX, FIVE BNC FEMALES

See Model 4655 for housing dimensions.
1ST END: BNC Females. Nominal Impedance: 50 Ohms.
2ND END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
(Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL 4656 — **LIST 40.30**

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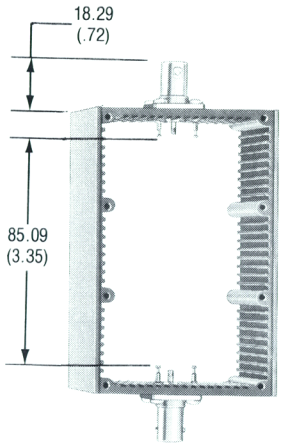
SIZE "F" COMPONENT MOUNTING BOX, BNC FEMALE EACH END

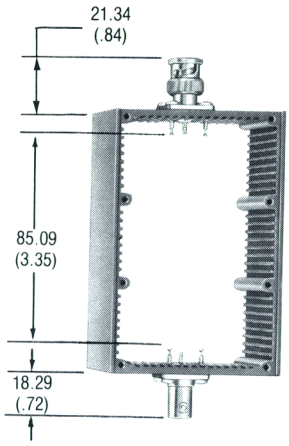
See Model 3301 for housing dimensions.
1ST END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL **3302** LIST 36.80

SIZE "F" COMPONENT MOUNTING BOX, BNC MALE TO BNC FEMALE

See Model 3301 for housing dimensions.
1ST END: BNC Male with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: BNC Female with solder turret terminal screws. Nominal Impedance: 50 Ohms. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



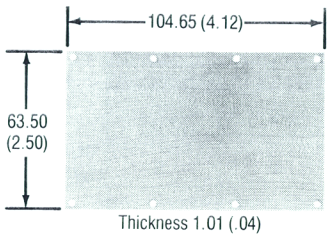
MODEL **3303** LIST 38.95

RFI/EMC COVER GASKET FOR SIZE "F", "G", "H" & "K" BOXES

This cover gasket greatly improves electromagnet shielding effectiveness of Pomona boxes. Fine Monel wires embedded in silicone provide an effective shield against radio frequency interference greatly improving electromagnetic compatibility. Adhesive back allows simple installation.

Gasket fits Models 3301, 3302, 3303, 3306, 3311, 3312, 3316, 3742, 3743, 4720 and 4739.

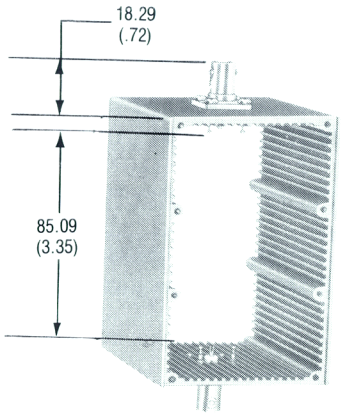
(Gasket attaches directly to cover.)



MODEL **4775** LIST 17.15

SIZE "G" COMPONENT MOUNTING BOX, BNC FEMALE EACH END

See Model 3311 for housing dimensions.
1ST END: BNC Female, with solder turret terminal screws. Nominal Impedance: 50 Ohms.
2ND END: Same as first end. (Supplied with cover and cover screws.)
RATING: 500 VRMS Max., +150°C. (+302°F.) Max.



MODEL **3312** LIST 39.55

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REPLACEMENT COVER

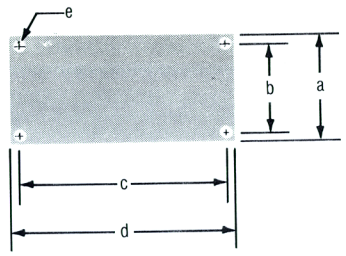

FIGURE 1

MOUNTING COVER

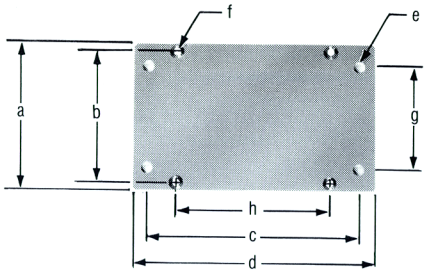

FIGURE 2

REPLACEMENT COVER

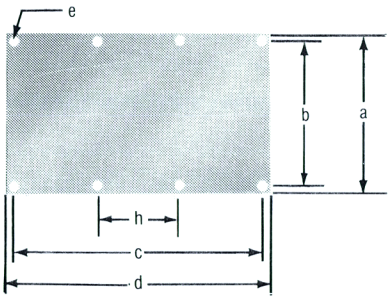

FIGURE 3

MOUNTING COVER

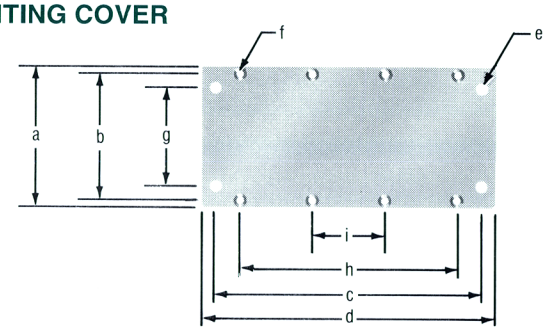

FIGURE 4

MODEL	Box Size	Fig.	Mat.*	Mat. Thickness	a	b	c	d	e See Note	f See Note	g	h	i	LIST
4742	Miniature	1	1100-H14	1.02 (.040)	26.42 (1.04)	21.41 (.843)	30.94 (1.218)	35.81 (1.41)	1					1.10
3729	Miniature	2	6061-T6	2.03 (.080)	29.21 (1.15)	21.41 (.843)	55.73 (2.194)	63.50 (2.50)	3	7	21.41 (.843)	30.94 (1.218)		2.85
4245	A	1	1100-H14	1.02 (.040)	26.16 (1.03)	21.41 (.843)	49.99 (1.968)	54.86 (2.16)	1					1.70
3728	A	2	6061-T6	2.03 (.080)	29.21 (1.15)	21.41 (.843)	74.78 (2.944)	82.55 (3.25)	3	7	21.41 (.843)	49.99 (1.968)		2.85
4246	B	1	1100-H14	1.02 (.040)	32.51 (1.28)	27.76 (1.093)	49.99 (1.968)	54.86 (2.16)	1					1.70
3719	B	2	6061-T6	2.03 (.080)	35.56 (1.40)	27.76 (1.093)	74.78 (2.944)	82.55 (3.25)	3	7	27.76 (1.093)	49.99 (1.968)		3.15
4248	C	3	1100-H14	2.03 (.080)	63.50 (2.50)	57.15 (2.250)	98.43 (3.875)	104.65 (4.12)	2			32.92 (1.292)		3.55
4726	D	1	1100-H14	1.60 (.063)	62.99 (2.48)	57.15 (2.250)	66.68 (2.625)	75.95 (2.99)	4					3.15
3958	D	2	1100-H14	2.03 (.080)	63.50 (2.50)	57.15 (2.250)	91.90 (3.618)	104.65 (4.12)	6	8	44.45 (1.750)	66.68 (2.625)		7.95
4416	E	3	1100-H14	2.03 (.080)	102.11 (4.02)	96.52 (3.800)	200.66 (7.900)	206.25 (8.12)	2			66.88 (2.633)		7.45
4247	F, G, H & K	3	1100-H14	2.03 (.080)	63.50 (2.50)	57.15 (2.250)	98.43 (3.875)	104.65 (4.12)	9			32.92 (1.292)		4.55
3328	F, G, H & K	4	6061-T6	2.03 (.080)	63.50 (2.50)	57.15 (2.250)	120.65 (4.750)	133.35 (5.25)	6	9	44.45 (1.750)	98.43 (3.875)	32.79 (1.291)	7.40
4631	I	1	1100-H14	2.03 (.080)	101.60 (4.00)	91.44 (3.600)	91.44 (3.600)	101.60 (4.00)	5					5.70
4642	I	2	1100-H14	2.03 (.080)	101.60 (4.00)	91.44 (3.600)	114.30 (4.500)	127.00 (5.00)	6	5	66.68 (2.625)	91.44 (3.600)		5.70
4658	J	1	1100-H14	1.60 (.063)	34.80 (1.37)	30.48 (1.200)	100.33 (3.950)	104.65 (4.12)	1					4.30
5198	L	1	1100-H14	1.60 (.063)	72.90 (2.87)	68.58 (2.700)	144.78 (5.700)	149.10 (5.87)	1					5.65

NOTES:

1) 2.44 (.096) 4 MTG Holes
2) 3.56 (.140) 8 MTG Holes
3) 3.81 (.150) 4 MTG Holes
4) 3.18 (.125) 4 MTG Hoels
5) 3.56 (.140) 4 MTG Holes
6) 5.11 (.201) 4 MTG Holes
7) 2.54 (.100) with 1.40 (.055) Deep x 4.22 (.166) counterbore
8) 3.18 (.125) with 5.94 (.234) Dia x 82° countersink
9) 3.56 (.140) Dia. with 5.94 (.234) Dia x 82° countersink

*All covers clear anodized per MIL-A-8625

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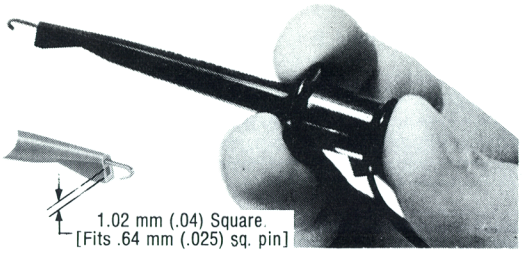
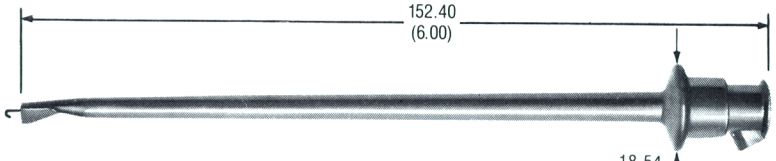
TEST CLIPS

These plunger type action test clips are called Grabber® test clips. The gold plated contact hook attaches rapidly to component leads and terminals. The specially designed tip (see illustration) slides easily on the 0.64 (.025) square wrapped wire terminals. The do-it-yourself Grabber test clip can be assembled quickly and easily by the user (see simplified instructions below). Grabber test clips can also be purchased as completed patch cords that are firmly molded together to provide a strong, reliable and integral unit.

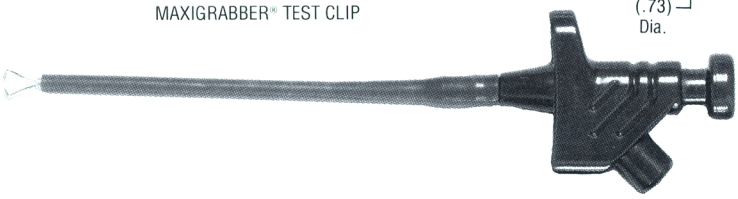


FEATURES:

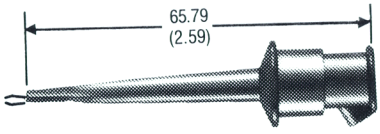
- Plunger type action between thumb and two fingers.
- Comfortable finger grip operation.
- Positive connection that won't pop off.
- No sharp teeth to damage or nick wires.



MAXIGRABBER® TEST CLIP

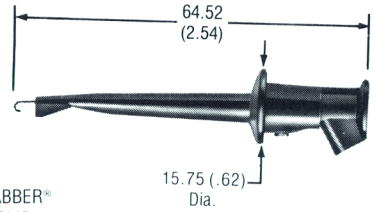


FLEXIBLE MAXIGRABBER® TEST CLIP

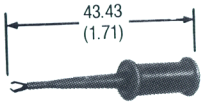


MINIPINCER™
TEST CLIP

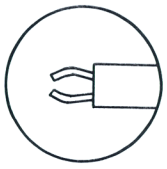
ROTATING MICROGRABBER®
TEST CLIP

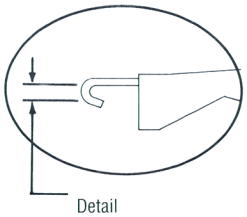


MINIGRABBER®
TEST CLIP

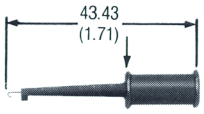


SMD GRABBER®
TEST CLIP





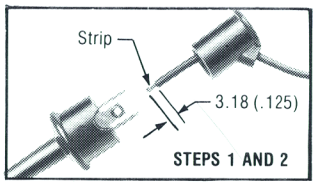
Detail
Maxigrabber® & Minigrabber® Test Clips 1.27 (.05)
Micrograbber® Test Clip 1.02 (.04)
(Inside Dimensions)

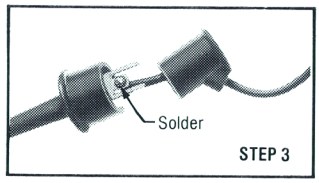


MICROGRABBER®
TEST CLIP

SIMPLIFIED ASSEMBLY PROCEDURE FOR DO-IT-YOURSELF MICROGRABBER®, MINIGRABBER®, MAXIGRABBER® AND SMD GRABBER® TEST CLIPS

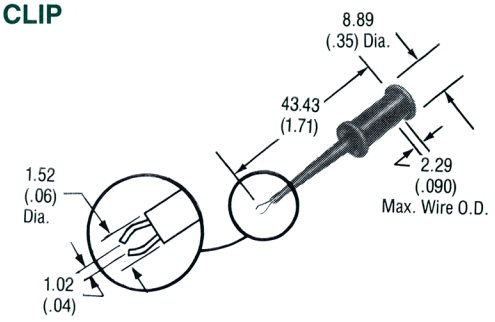
1. Pull off thumb cap to expose contact connection.
2. Thread wire through thumb cap and strip 2.18 (.125).
3. Insert stripped end through tapered hole on contact and solder.
   NOTE: Stripped end should be placed into the large opening of the tapered hole.
4. Slide thumb cap back onto contact.





DO-IT-YOURSELF SMD GRABBER® TEST CLIP

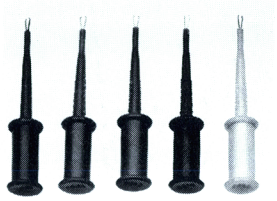
The SMD Grabber® Test Clip is especially suited for testing surface mounted packages on centers as small as 0.76mm (.030). Pincer-like contact grasps individual legs of SMD's such as the SOIC, SOJ, PCC, etc. Its circular design and small size have been developed for easy use and handling.



MODEL
5243-*

LIST 16.50
(Pkg. 10 per Color)

DO-IT-YOURSELF SMD GRABBER® KITS

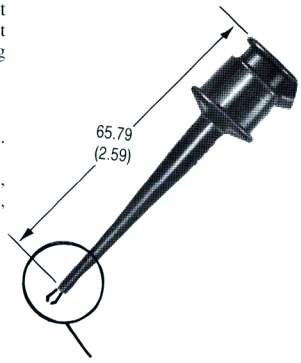


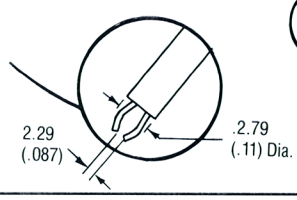
MODEL	Features	LIST per Kit
5231-*	Kit contains 2 pcs. of 5243.	3.55
5520	Kit contains 10 pcs. of 5243, one of each color.	14.85

***STD COLORS:** -02 one Black and one Red, -00 two Black, -11 two Brown, -22 two Red, -33 two Orange, -44 two Yellow, -55 two Green, -66 two Blue, -77 two Violet, -88 two Gray, -99 two White.

DO-IT-YOURSELF MINIPINCER® TEST CLIP

This clip utilizes a snap-on cap and a solder contact to provide reliable connections. The lower contact has a pincer type action ideally suited for testing standard DIP packages.
MATERIAL: Beryllium copper contact.
FINISH: Selectively gold plated.
RATING: 1000 WVDC; 5 Amps; +80°C. (+176°F.) Max.
***STD. COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.



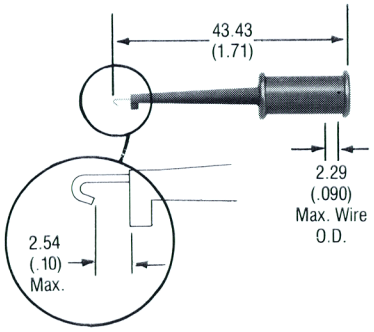


MODEL
5418-*

LIST 1.50

DO-IT-YOURSELF MICROGRABBER® TEST CLIP

MATERIAL: Contact, beryllium copper.
FINISH: Gold plated.
INSULATION: Glass filled nylon.
RATING: 1000 WVDC, 3 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

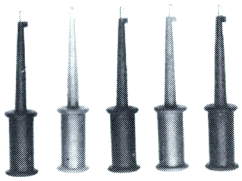


MODEL
4233-*

(See assembly details, page 103.)

LIST 12.50 PKG
(Pkg. Ten Per Color)

DO-IT-YOURSELF MICROGRABBER® TEST CLIP KITS



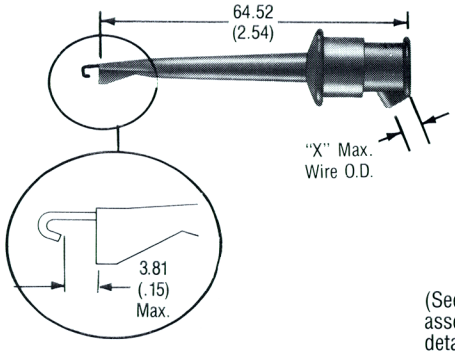
MODEL	Features	LIST per Kit
4743-*	Kit contains 2 pcs. of 4233.	3.05
5524	Kit contains 10 pcs. of 4233, one of each color.	11.00

***STD COLORS:** -02 one Black and one Red,-00 two Black,-11 two Brown,-22 two Red, -33 two Orange, -44 two Yellow, -55 two Green, -66 two Blue,-77 two Violet, -88 two Gray, -99 two White.

DO-IT-YOURSELF MINIGRABBER® TEST CLIP

MATERIAL: Contact, beryllium copper.
FINISH: Gold plated.
INSULATION: Glass filled nylon.
RATING: 3000 WVDC, 12 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

MODEL	"X" Dia.
3925-*	2.29 (.090)
4555-*	3.66 (.144)



(See assembly details, page 103.)

LIST 12.00 PKG
(Pkg. Ten Per Color)

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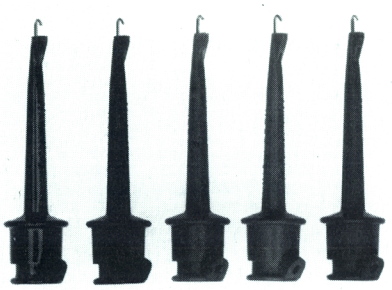
DO-IT-YOURSELF MINIGRABBER® KITS

MODEL	Features	LIST per Kit
4176-*	Kit contains 2 pcs. of 3925.	2.75
5522	Kit contains 10 pcs. of 3925, one of each color.	11.00

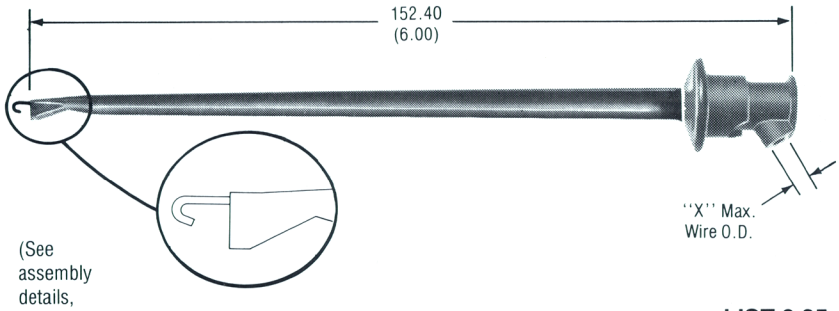
***STD COLORS:** -02 one Black and one Red, -00 two Black, -11 two Brown, -22 two Red, -33 two Orange, -44 two Yellow, -55 two Green, -66 two Blue, -77 two Violet, -88 two Gray, -99 two White.



DO-IT-YOURSELF MAXIGRABBER® TEST CLIP

The Maxigrabber test clip is an extended do-it-yourself Grabber test clip designed specifically for high-rise packaging of electronic components where depth of testing point is a key factor. The Maxigrabber test clip will fit entry holes as small as 6.35 (.250) dia. and the unit is completely field serviceable.
MATERIAL: Contact, beryllium copper.
FINISH: Gold plated.
INSULATION: Glass filled nylon.
RATING: 3000 WVDC, 12 Amps, +102°C. (+216°F.) Max.
***STD COLOR:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

MODEL	"X" Dia.
4225-*	2.29 (.090)
4565-*	3.66 (.144)

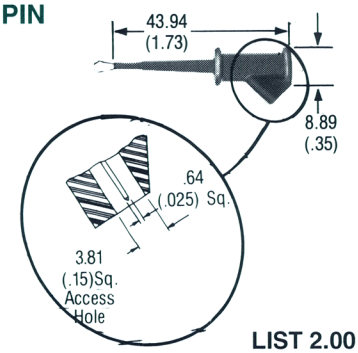


(See assembly details, page 103.)

LIST 3.25

SMD GRABBER® TEST CLIP WITH 0.64mm (.025) SQUARE PIN

1ST END: Contact, stainless steel, selectively gold plated.
INSULATION: Glass filled nylon.
2ND END: Square pin, phosphor bronze, gold plated.
RATING: 1000 WVDC; 0.5 Amps; +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -9 Gray, -9 White.

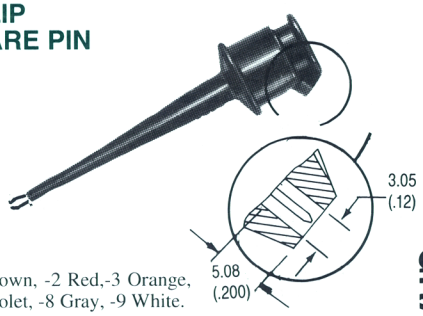


MODEL
5360

LIST 2.00

MINIPINCER® TEST CLIP WITH 0.64 (.025) SQUARE PIN

This clip has similar pincer contact as Model 5418 and includes recessed 0.64mm (.025) square pin in cap.
1ST END: Contact, beryllium copper, selectively gold plated.
INSULATION: Nylon.
2ND END: Square pin.
RATING: 1000 WVDC; 3 Amps; +80°C. (+176°F.) Max.
***STD. COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

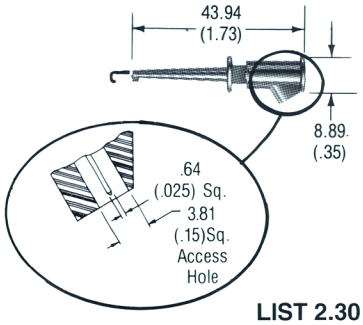


MODEL
5430-*

LIST 3.50

MICROGRABBER® TEST CLIP WITH 0.64 (.025) SQUARE PIN

MATERIAL: Contact, beryllium copper. Square pin, phosphor bronze.
FINISH: Gold plated.
INSULATION: Glass filled nylon.
RATING: 1000 WVDC, 3 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

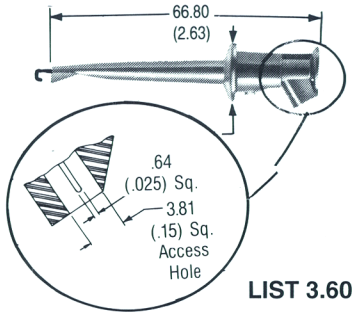


MODEL
4521-*

LIST 2.30

MINIGRABBER® TEST CLIP WITH 0.64 (.025) SQUARE PIN

MATERIAL: Contact, beryllium copper. Square pin, phosphor bronze.
FINISH: Gold plated.
INSULATION: Glass filled nylon.
RATING: 2500 WVDC, 3 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

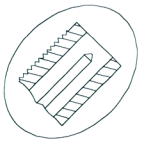


MODEL
4587-*

LIST 3.60

ROTATING MICROGRABBER®

The Rotating Micrograbber Test Clip is ideal for testing surface mounted devices (SMDs), high density leads with 1.2mm (0.05") spacing, and fine gauge wires (0.1mm/0.004"). Two access entries with 0.6mm (.025) square pins. Rotating pincers grasp leads firmly. Extended guide tube reaches into tight areas and can be bent to a 35° angle.
RATING: 42V, 2A Max.
***STD COLORS:** -0 Black, -2 Red.

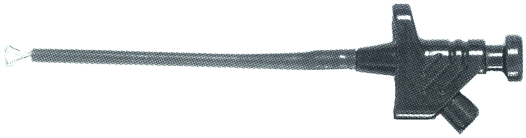


MODEL
5790-*

LIST 4.60

DO-IT-YOURSELF FLEXIBLE MAXIGRABBER® TEST CLIP

This flexible clip has a rotating pincer type contact to make access easier. Standard banana jack and screw for direct wire termination.
***STD. COLORS:** -0 Black, -2 Red.



MODEL
5830-*

LIST 6.30

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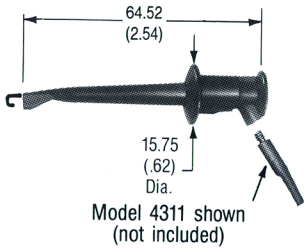
MINIGRABBER® TEST CLIP WITH 6-32 THREAD

This grabber test clip can be used with oscilloscope leads equipped with a 6-32 screw.
MATERIAL: Contact, beryllium copper. Threaded insert, brass.
FINISH: Contact, gold plated.
INSULATION: Glass filled nylon.
RATING: 3000 WVDC, 12 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -2 Red.



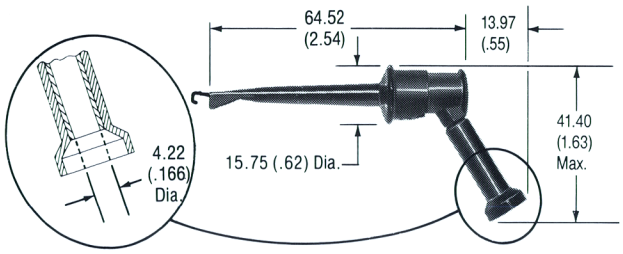
MODEL	LIST
4011-*	2.85

6-32 SCREW-ON TIP

Can be crimped or soldered to wire. Supplied with shrink sleeving. Mates with Model 4011.
MATERIAL: Brass.
FINISH: Nickel plated.
INSULATION: Shrink sleeving.

MODEL	LIST
4311	2.25

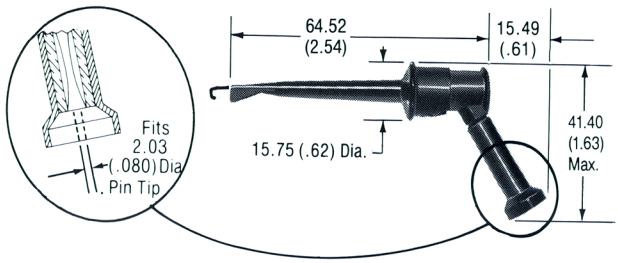
MINIGRABBER® TEST CLIP WITH BANANA JACK



This Minigrabber test clip has a standard banana jack built right into the plunger. Excellent for attaching the Grabber test clip directly to the end of a banana plug patch cord.
1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated.
INSULATION: Glass filled nylon.
2ND END: Banana jack. Brass, nickel plated.
RATING: 3000 WVDC, 12 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red,-3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

MODEL	LIST
4723-*	3.75

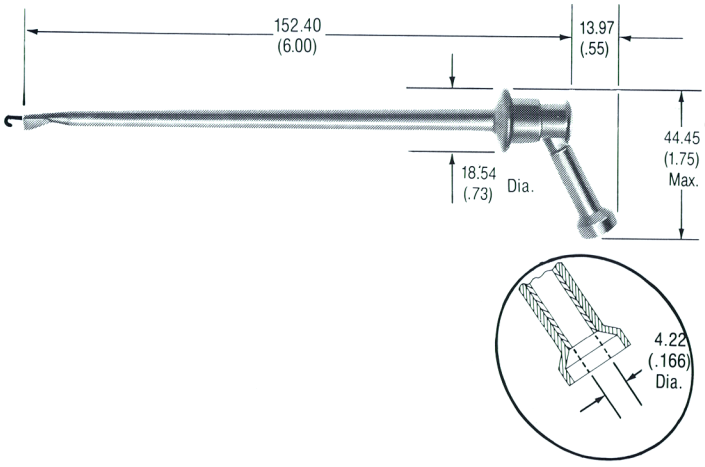
MINIGRABBER® TEST CLIP WITH PIN JACK



This Minigrabber test clip has a pin jack built right into the plunger. Excellent for attaching the Grabber test clip directly to the end of a pin tip patch cord or it can be used as an adapter for miniature test probes with 2.03 (.080) tips.
1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated.
INSULATION: Glass filled nylon.
2ND END: Pin jack. Spring, beryllium copper, gold plated.
RATING: 2500 WVDC, 5 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -2 Red, -9 White.

MODEL	LIST
4826-*	5.15

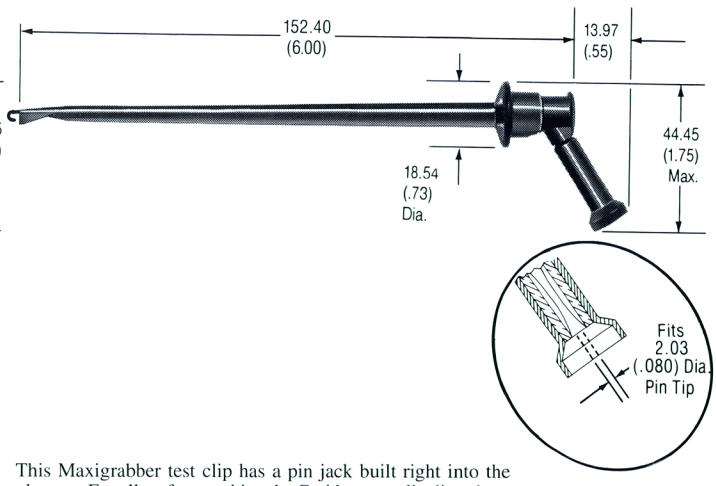
MAXIGRABBER® TEST CLIP WITH BANANA JACK



This Maxigrabber test clip has a standard banana jack built right into the plunger. Excellent for attaching the Grabber test clip directly to the end of a banana plug patch cord.
1ST END: Maxigrabber Test Clip. Contact, beryllium copper, gold plated.
INSULATION: Glass filled nylon.
2ND END: Banana Jack. Brass, nickel plated.
RATING: 3000 WVDC, 12 Amps, +102°C. (+216°F.) Max.
***STD COLOR:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

MODEL	LIST
4724-*	5.45

MAXIGRABBER® TEST CLIP WITH PIN JACK



This Maxigrabber test clip has a pin jack built right into the plunger. Excellent for attaching the Grabber test clip directly to the end of a pin tip patch cord.
1ST END: Maxigrabber Test Clip. Contact, beryllium copper, gold plated.
INSULATION: Glass filled nylon.
2ND END: Pin Jack. Spring, beryllium copper, gold plated.
RATING: 3000 WVDC, 5 Amps, +102°C. (+216°F.) Max.
***STD COLOR:** -0 Black, -2 Red.

MODEL	LIST
4827-*	6.60

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SMD GRABBER® TEST CLIP, EACH END

MODEL	Length	LIST
5301-6-*	203.2 (8.0)	5.30
5301-12-*	304.8 (12.0)	5.30
5301-24-*	609.6 (24.0)	5.30
5301-36-*	914.4 (36.0)	5.30

1ST END: SMD Grabber® Test Clip. Contact, selectively gold plated stainless steel. Insulation; glass filled nylon.
WIRE: 22 AWG, 26 X 36 t.c., PVC insulated, 1.63mm (.064) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 0.5 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

SMD GRABBER® PATCH CORD KIT

Kit contains 10 pcs. of Model 5301-24. 1 of each color.

MODEL	
5521	LIST 47.70 KIT

SMD GRABBER® TEST CLIP, ONE END ONLY

MODEL	Length	LIST
5303-36-*	914.4 (36.0)	3.65

1ST END: SMD Grabber® Test Clip. Contact, selectively gold plated stainless steel. Insulation; glass filled nylon.
WIRE: 22 AWG, 26 X 36 t.c., PVC insulated, 1.63mm (.064) O.D.

2ND END: None.
RATING: 1000 WVDC; 0.5 Amps; +102°C. (+216°F.) Max
***STD COLORS:** -0 Black, -2 Red.

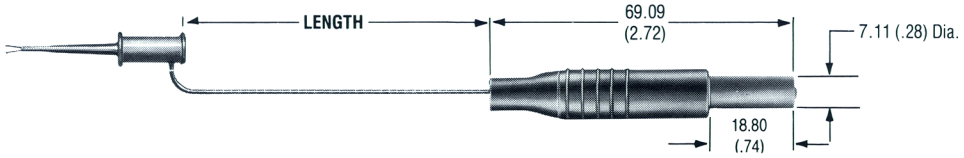
SMD GRABBER® TEST CLIP TO 0.64mm (.025) SQ. PIN RECEPTACLE

MODEL	Length	LIST
5412-12-*	304.8 (12.0)	5.15
5412-24-*	609.6 (24.0)	5.15
5412-36-*	914.4 (36.0)	5.15

1ST END: SMD Grabber® Test Clip. Contact, selectively gold plated stainless steel. Insulation; glass filled nylon.
WIRE: 22 AWG, 26 X 36 t.c., PVC insulated, 1.63mm (.064) O.D.

2ND END: 0.64mm (.025) Square Pin Receptacle. Gold plated phosphor bronze. ABS insulation.
RATING: 1000 WVDC; 0.5 Amps; +50°C. (+122°F.) Max
***STD COLORS:** -0 Black, -2 Red.

SMD GRABBER® TEST CLIP TO RETRACTABLE SHEATH BANANA PLUG

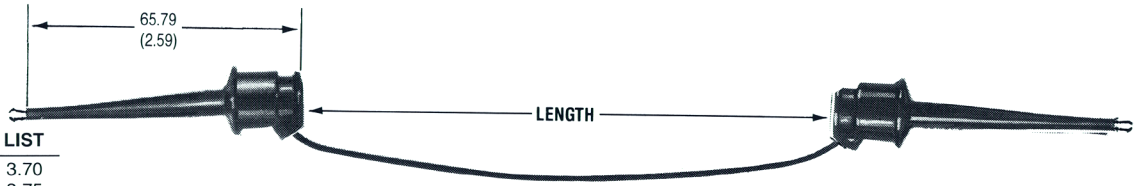


MODEL	Length	LIST
5362-36-*	914.4 (36.0)	8.00

1ST END: SMD Grabber® Test Clip. Contact, selectively gold plated stainless steel. Insulation; glass filled nylon.
WIRE: 22 AWG, 26 X 36 t.c., PVC insulated, 1.63mm (.064) O.D.

2ND END: Sheathed Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation; nylon.
RATING: 1000 WVDC, 0.5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIPINCER® TEST CLIPS, EACH END



MODEL	Length	LIST
5419-8-*	203.2 (8.0)	3.70
5419-12-*	304.8 (12.0)	3.75
5419-18-*	457.2 (18.0)	3.85
5419-24-*	609.6 (24.0)	3.95
5419-36-*	914.4 (36.0)	4.15
5419-48-*	1219.2 (48.0)	4.35
5419-60-*	1524.0 (60.0)	4.55

1ST END: Minipincer® Test Clip. Selectively gold plated beryllium copper contact. Nylon insulation.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21mm (.087) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 5 Amps; +80°C. (+176°F.) Max.
***STD. COLORS:** -0 Black, -2 Red.

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MICROGRABBER® TEST CLIP, EACH END

MODEL	Length	LIST
4613-12-*	304.8 (12.0)	4.95
4613-24-*	609.6 (24.0)	4.95
4613-36-*	914.4 (36.0)	4.95
4613-48-*	1219.2 (48.0)	5.15

1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 3 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, ,-2 Red.

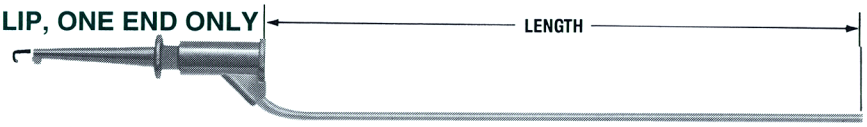
MICROGRABBER® TEST CLIP PATCH CORD KIT

Kit contains 10 pcs. of Model 4613-24, one of each color.

MODEL
5525

LIST 44.55 KIT

MICROGRABBER® TEST CLIP, ONE END ONLY

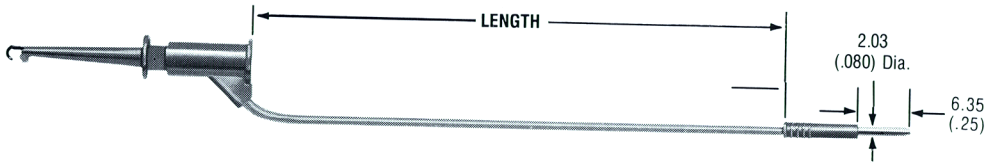


MODEL	Length	LIST
5043-36-*	914.4 (36.0)	3.60

1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: None.
RATING: 1000 WVDC, 3 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, ,-2 Red.

MICROGRABBER® TEST CLIP TO PIN TIP PLUG

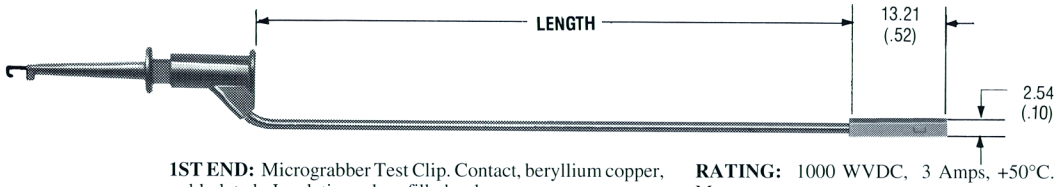


MODEL	Length	LIST
4716-12-*	304.8 (12.0)	4.55
4716-36-*	914.4 (36.0)	4.55

1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated, 1.63 (.064) O.D.

2ND END: Pin tip plug. Brass, gold plated. Insulation, polypropylene.
RATING: 1000 WVDC, 3 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, ,-2 Red.

MICROGRABBER® TEST CLIP TO 0.64 (.025) SQUARE PIN RECEPTACLE

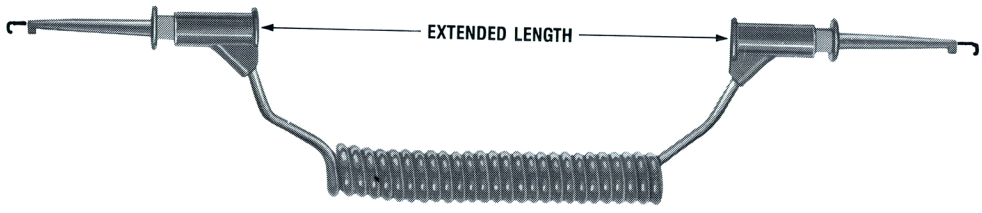


MODEL	Length	LIST
4919-12-*	304.8 (12.0)	4.30
4919-24-*	609.6 (24.0)	4.30

1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated, 1.63 (.064) O.D.
2ND END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.

RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, ,-2 Red.

MICROGRABBER® TEST CLIP, EACH END WITH RETRACTILE (COILED) CORD



MODEL	Length	LIST
5200-36-*	914.4 (36.0)	9.10
5200-48-*	1219.2 (48.0)	10.00
5200-60-*	1524.0 (60.0)	10.90

Permits the use of one size patch cord in place of many various lengths. (Replaces Model 5160)
1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 26 AWG, 10 x 36 non-tinned copper, polyurethane insulated, 2.24 (.088) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 3 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, ,-2 Red.

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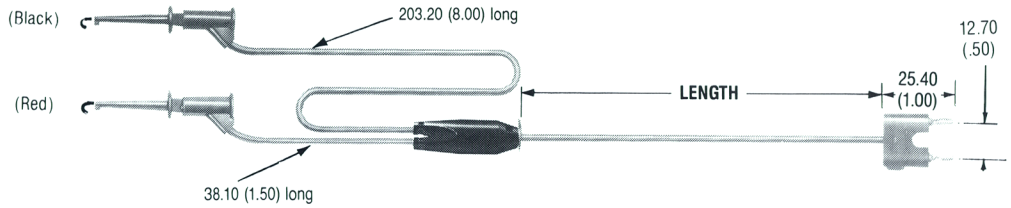
MICROGRABBER® TEST CLIPS TO MINIATURE DOUBLE BANANA PLUG

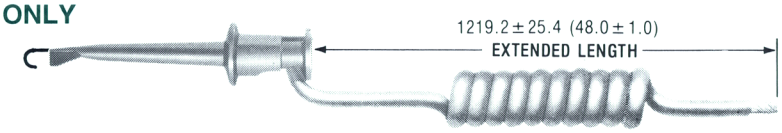


MODEL	Length	LIST
4776-K-24	609.6 (24.0)	16.65
4776-K-36	914.4 (36.0)	16.65
4776-K-48	1219.2 (48.0)	17.25
4776-K-60	1524.0 (60.0)	17.85

1ST END: Micrograbber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black and one red.
CABLE: Shielded coax., RG 174/U, 2.54 (.100) O.D. Y-Mold insulation, PVC, black.

2ND END: Double Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polyethylene, black.
RATING: 1000 WVDC, +50°C. (+122°F.) Max.

MINIGRABBER® TEST CLIP, ONE END ONLY WITH RETRACTILE (COILED) CORD



MODEL
4536-*

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 VDC Int.; 270 VDC, 90 VAC cont. duty, 5 Amps, +60°C. (+140°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LIST 8.00

MINIGRABBER® TEST CLIP EACH END

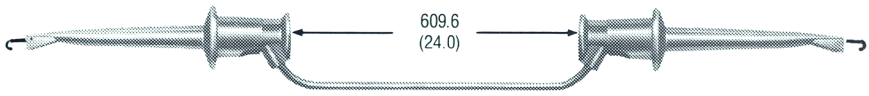
MODEL	Length	LIST
3781-8-*	203.2 (8.0)	3.05
3781-12-*	304.8 (12.0)	3.05
3781-18-*	457.2 (18.0)	3.05
3781-24-*	609.6 (24.0)	3.05
3781-36-*	914.4 (36.0)	3.05
3781-48-*	1219.2 (48.0)	3.25
3781-60-*	1524.0 (60.0)	3.45

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

MINIGRABBER® TEST CLIP PATCH CORD KIT

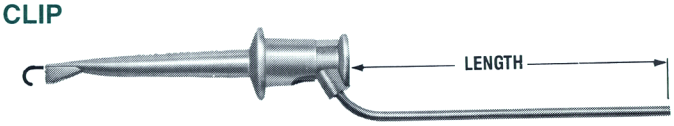
Kit contains 10 pcs. of Model 3781-24, one of each color.



MODEL
5523

LIST 27.45 KIT

MINIGRABBER® TEST CLIP ONE END ONLY

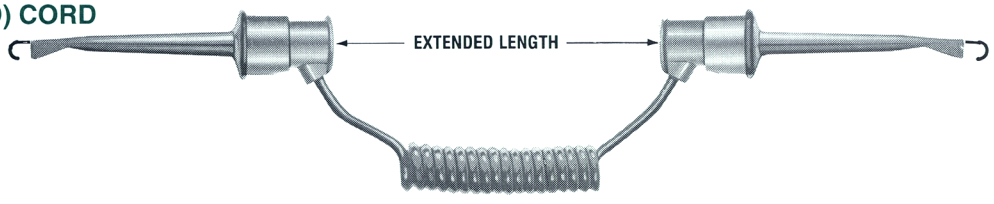


MODEL	Length	LIST
3780-60-*	1524.0 (60.0)	2.40

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: None.
RATING: 3000 WVDC, 5 Amps, +102°C. (+216°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIGRABBER® TEST CLIP EACH END WITH RETRACTILE (COILED) CORD



MODEL	Length	LIST
5201-36-*	914.4 (36.0)	9.15
5201-48-*	1219.2 (48.0)	10.05
5201-60-*	1524.0 (60.0)	10.95

Permits the use of one size patch cord in place of many various lengths.
1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, nylon.
WIRE: 26 AWG, 10 x 36 non-tinned copper, polyurethane insulated, 2.24 (.088) O.D.

2ND END: Same as first end.
RATING: 1000 VDC Int., 3 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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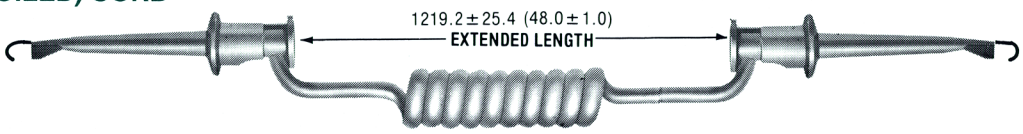
MINIGRABBER® TEST CLIP, ONE END ONLY WITH RETRACTILE (COILED) CORD



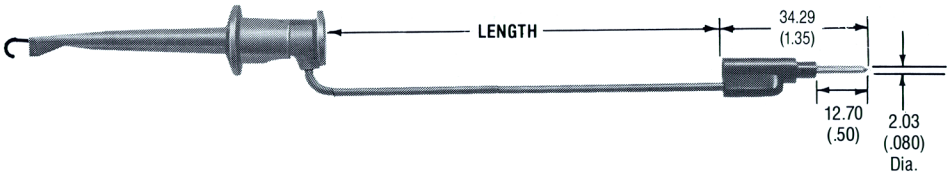
MODEL
4537-*

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 42 x 36 t.c., PVC insulated, 3.71 (.146) O.D.

2ND END: None.
RATING: 3000 VDC Int, 270 VDC, 90 VAC cont. duty, 5 Amps, +60°C. (+140°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LIST 11.20

MINIGRABBER® TEST CLIP TO STACKING PIN TIP PLUG

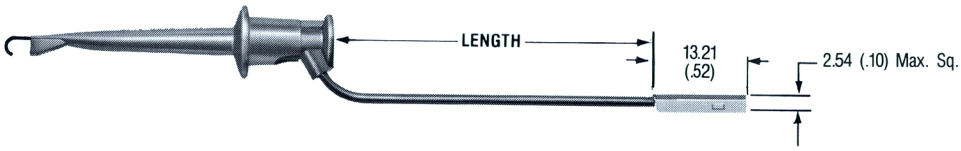


MODEL	Length	LIST
3785-12-*	304.8 (12.0)	4.50
3785-24-*	609.6 (24.0)	4.50
3785-36-*	914.4 (36.0)	4.50
3785-48-*	1219.2 (48.0)	4.70
3785-60-*	1524.0 (60.0)	4.90

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Stacking Pin Tip Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIGRABBER® TEST CLIP TO 0.64 (.025) SQUARE PIN RECEPTACLE



MODEL	Length	LIST
3783-12-*	304.8 (12.0)	3.60
3783-24-*	609.6 (24.0)	3.60
3783-36-*	914.4 (36.0)	3.60

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 22 AWG, 26 x 36 t.c., PVC insulated, 1.63 (.064) O.D.

2ND END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
RATING: 1000 WVDC , 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

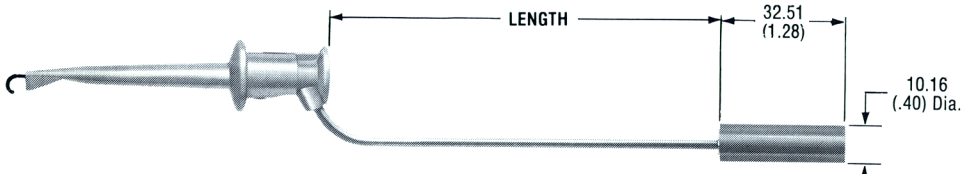
MINIGRABBER® TEST CLIP TO STACKING MINIATURE BANANA PLUG

MODEL	Length	LIST
3784-12-*	304.8 (12.0)	3.75
3784-24-*	609.6 (24.0)	3.75
3784-36-*	914.4 (36.0)	3.75
3784-48-*	1219.2 (48.0)	3.95
3784-60-*	1524.0 (60.0)	4.15

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.
2ND END: Stacking Miniature Banana Plug. Brass body, beryllium copper spring, nickel plated. Polypropylene insulation.

RATING: 2500 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIGRABBER® TEST CLIP TO IN-LINE BANANA JACK

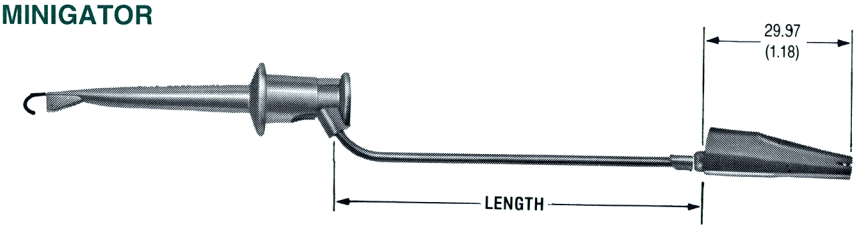


MODEL	Length	LIST
4649-12-*	304.8 (12.0)	5.60
4649-24-*	609.6 (24.0)	5.60
4649-36-*	914.4 (36.0)	5.60
4649-48-*	1219.2 (48.0)	6.00

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: In-line Banana Jack. Brass, nickel plated. Insulation, polypropylene.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIGRABBER® TEST CLIP TO MINIGATOR



MODEL	Length	LIST
4652-12-*	304.8 (12.0)	4.90
4652-24-*	609.6 (24.0)	4.90
4652-36-*	914.4 (36.0)	4.90
4652-48-*	1219.2 (48.0)	5.15

1ST END: Minigrabber Test Clip. Contact, beryllium copper, gold plated. Insulation, glass filled nylon.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Minigator. Steel, nickel plated. Insulation, vinyl.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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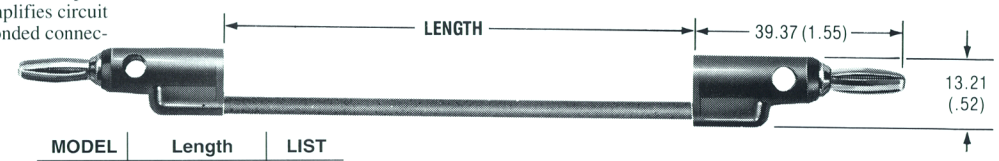
STACKING STANDARD BANANA PLUG EACH END

Multiple stacking feature accommodates the most complex stacking; keeps circuitry neater. Greatly simplifies circuit connections and changes. Reliable solderbonded connections withstand pull test in excess of 50 lbs.



MODEL	Length	LIST
B-4-*	101.6 (4.0)	3.30
B-8-*	203.2 (8.0)	3.30
B-12-*	304.8 (12.0)	3.30
B-18-*	457.2 (18.0)	3.30
B-24-*	609.6 (24.0)	3.30
B-36-*	914.4 (36.0)	3.30
B-48-*	1219.2 (48.0)	3.50
B-60-*	1524.0 (60.0)	3.75
B-72-*	1829.0 (72.0)	4.00

FINISH: Nickel plated.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

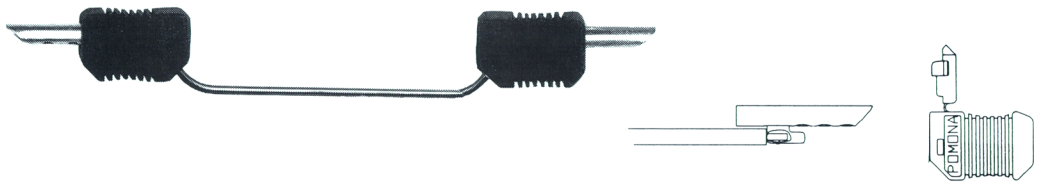
MODEL	Length	LIST
2948-12-*	304.8 (12.0)	5.75
2948-24-*	609.6 (24.0)	5.75
2948-36-*	914.4 (36.0)	5.75
2948-48-*	1219.2 (48.0)	5.95
2948-60-*	1524.0 (60.0)	6.15

FINISH: Gold plated.
***STD COLORS:** -0 Black, -2 Red,.

1ST END: Stacking Banana Plug. Brass body, beryllium copper spring. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.
2ND END: Same as first end.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.

LOW COST BANANA PLUG

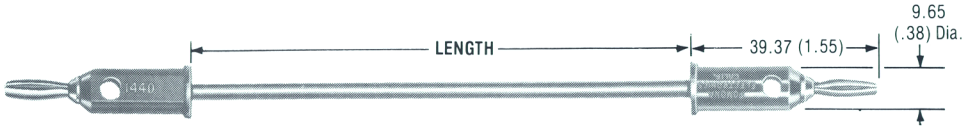
This patch cord offers a low cost solution for your banana plug needs. Banana Plug also sold individually as a Do-It-Yourself model (Model 5750).



MODEL	Length	LIST
5732-24-*	609.6 (24.0)	2.00
5732-48-*	1219.2 (48.0)	2.25

1ST END: Banana Plug. Beryllium copper, nickel plated. Insulation, nylon.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.
2ND END: Same as first end.
RATING: 5000 WVDC. 15 Amps. +80°
***STD COLORS:** -0 Black, -2 Red.

HORIZONTAL STACKING BANANA PLUG EACH END

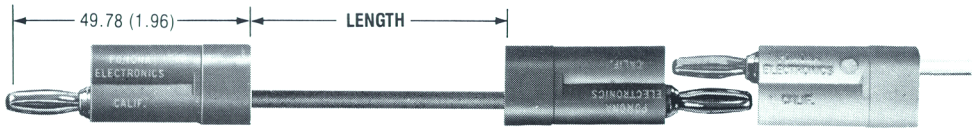


MODEL	Length	LIST
1440-8-*	203.2 (8.0)	4.90
1440-12-*	304.8 (12.0)	4.90
1440-18-*	457.2 (18.0)	4.90
1440-24-*	609.6 (24.0)	4.90
1440-36-*	914.4 (36.0)	4.90
1440-48-*	1219.2 (48.0)	5.10
1440-60-*	1524.0 (60.0)	5.30

Ideal as an interconnecting lead between power supplies, test equipment, etc. Horizontal stacking feature.
1ST END: Banana Plug. Brass body, beryllium copper spring. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.
2ND END: Same as first end.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

EXTENSION STACKING BANANA PLUG EACH END

Dual purpose. Insulates all hot leads when used as an extension cord. Endless extension couplings possible with any banana plug patch cord.

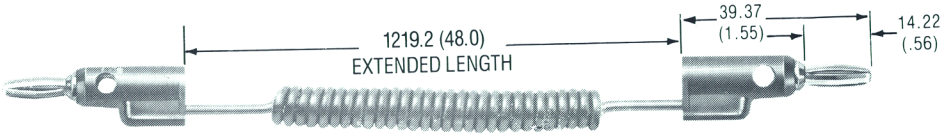


MODEL	Length	LIST
HB-12-*	304.8 (12.0)	5.25
HB-24-*	609.6 (24.0)	5.25
HB-36-*	914.4 (36.0)	5.25
HB-48-*	1219.2 (48.0)	5.45

1ST END: Extension Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.
2ND END: Same as first end.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

STACKING BANANA PLUG EACH END ON RETRACTILE (COILED) CORD

Permits the use of one size patch cord in place of many various lengths.



MODEL	LIST
2484-*	9.05

1ST END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 20 AWG, 42 x 36 t.c., PVC insulated, 3.71 (.146) O.D.
2ND END: Same as first end.
RATING: 3000 VDC Int., 270 VDC, 90 VAC cont. duty, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS**: -0 Black, -2 Red.

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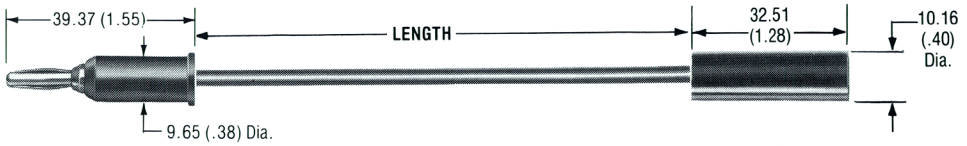
BANANA PLUG TO IN-LINE BANANA JACK

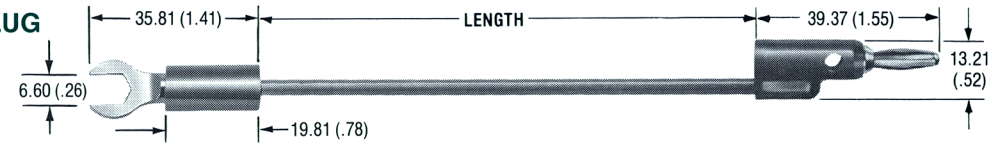


MODEL	Length	LIST
4702-12-*	304.8 (12.0)	4.50
4702-18-*	457.2 (18.0)	4.50
4702-24-*	609.6 (24.0)	4.50
4702-36-*	914.4 (36.0)	4.50
4702-48-*	1219.2 (48.0)	4.70
4702-60-*	1524.0 (60.0)	4.90

Dual purpose. Insulates all hot leads when used as an extension cord. Endless extension couplings possible with any banana plug patch cord.
1ST END: Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: In-line Banana Jack. Brass, nickel plated. Insulation, polypropylene.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED SPADE LUG TO STACKING BANANA PLUG

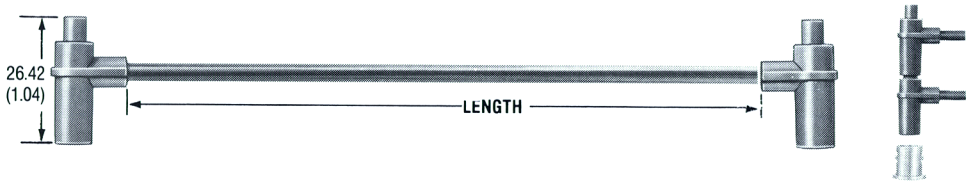


MODEL	Length	LIST
1370-12-*	304.8 (12.0)	4.75
1370-24-*	609.6 (24.0)	4.75
1370-36-*	914.4 (36.0)	4.75
1370-48-*	1219.2 (48.0)	4.95
1370-60-*	1524.0 (60.0)	5.15

1ST END: Spade Lug. Brass, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Stacking Banana Plug. Brass body,beryllium copper spring, nickel plated. Insulation, polypropylene.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

"PUSH-ON" STACKING BNC MALE EACH END

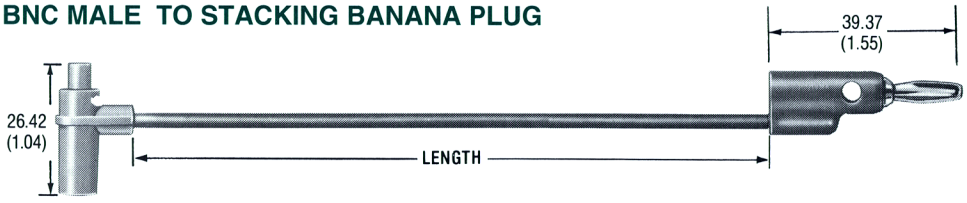


MODEL	Length	LIST
3201-12-*	304.8 (12.0)	9.80
3201-36-*	914.4 (36.0)	9.95

1ST END: Push-on Stacking BNC Male. Contact, beryllium copper, gold plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 500 VRMS, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

"PUSH-ON" STACKING BNC MALE TO STACKING BANANA PLUG



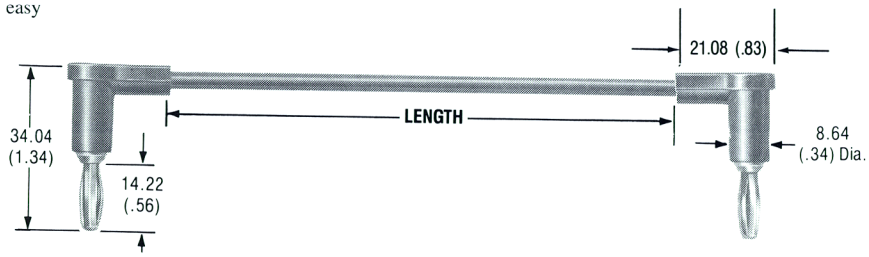
MODEL	Length	LIST
3202-18-*	457.2 (18.0)	8.05
3202-36-*	914.4 (36.0)	8.30

1ST END: Push-on Stacking BNC Male. Contact, beryllium copper, gold plated. Insulation, Polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
RATING: 500 VRMS, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

STACKING RIGHT ANGLE BANANA PLUG EACH END

Vertical stacking feature allows endless circuit connections and the right angle design keeps wires close to the chassis. An oversized shoulder allows easy connect and disconnect.



MODEL	Length	LIST
2864-4-*	101.6 (4.0)	6.00
2864-8-*	203.2 (8.0)	6.00
2864-12-*	304.8 (12.0)	6.00
2864-18-*	457.2 (18.0)	6.00
2864-24-*	609.6 (24.0)	6.00
2864-36-*	914.4 (36.0)	6.00
2864-48-*	1219.2 (48.0)	6.20
2864-60-*	1524.0 (60.0)	6.40

1ST END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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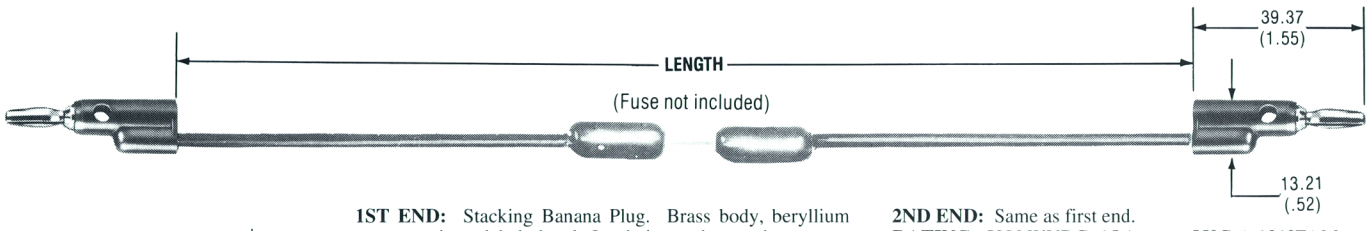
STACKING BANANA PLUG EACH END WITH IN-LINE FUSE HOLDER

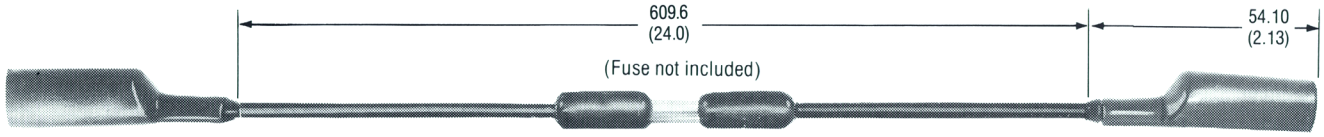


MODEL	Length	LIST
4274-24-*	609.6 (24.0)	10.50
4274-36-*	914.4 (36.0)	10.50

1ST END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D. Fuse holder, brass, tin plated. Insulation, PVC. Accepts 6.35 (.25) dia. SFE and AGC fuses (not included.)

2ND END: Same as first end.
RATING: 5000 WVDC, 15 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED ALLIGATOR CLIP EACH END WITH IN-LINE FUSE HOLDER



MODEL
4354-24-*

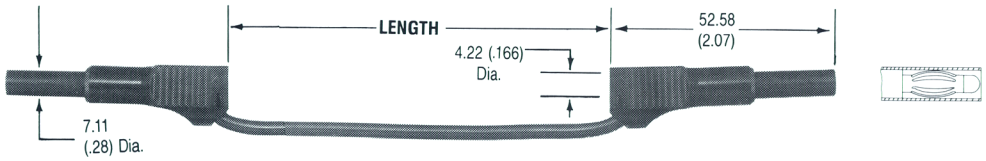
1ST END: Alligator Clip. Steel, nickel plated. Insulation, vinyl.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D. Fuse holder, brass, tin plated. Insulation, PVC. Accepts 6.35 (.25) dia. SFE and AGC fuses (not included.)

2ND END: Same as first end.
RATING: 5000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LIST 12.20

RETRACTABLE SHEATH STACKING BANANA PLUG, EACH END

This retractable sheath banana plug has a stacking feature allowing the insertion of standard or other retractable plugs.

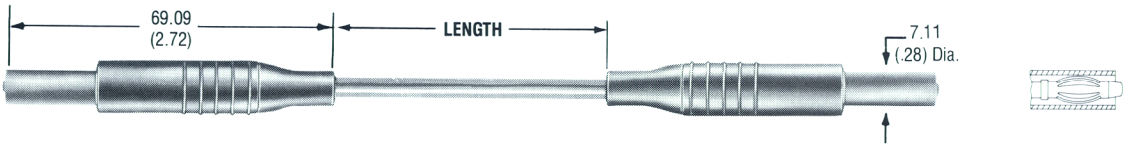


MODEL	Length	LIST
5403-12-*	304.8 (12.0)	7.75
5403-24-*	609.6 (24.0)	7.75
5403-36-*	914.4 (36.0)	7.75
5403-48-*	1219.2 (48.0)	7.95
5403-60-*	1524.0 (60.0)	8.15

1ST END: Retractable Sheath Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene. Tip, polypropylene, orange.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 1200 V AC/DC Max., 7 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

RETRACTABLE SHEATH BANANA , EACH END

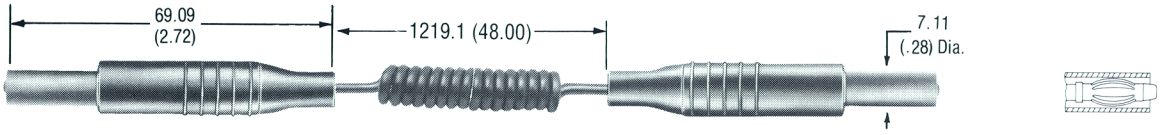


MODEL	Length	LIST
4911-12-*	304.8 (12.0)	7.75
4911-18-*	457.2 (18.0)	7.75
4911-24-*	609.6 (24.0)	7.75
4911-36-*	914.4 (36.0)	7.75
4911-48-*	1219.2 (48.0)	7.95
4911-60-*	1524.0 (60.0)	8.15

1ST END: Retractable Sheath Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation,nylon.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 1200 V AC/DC Max., 7 Amps, +80°C. (+176°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

RETRACTABLE SHEATH BANANA , EACH END



MODEL
5036-*

1ST END: Retractable Sheath Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation,nylon.
WIRE: 20 AWG, 42 x 36 t.c., PVC insulated, 3.71 (.146) O.D.

2ND END: Same as first end.
RATING: 3000 VDC Int., 270 VDC-90 VAC cont. duty, 5 Amps, +60°C. (+140°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LIST 11.95

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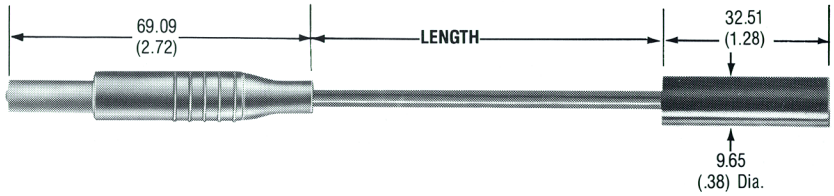
RETRACTABLE SHEATH BANANA PLUG TO IN-LINE BANANA JACK



MODEL	Length	LIST
5259-12-*	304.8 (12.0)	6.05
5259-24-*	609.6 (24.0)	6.05
5259-36-*	914.4 (36.0)	6.05
5259-48-*	1219.2 (48.0)	6.25
5259-60-*	1524.0 (60.0)	6.45

1ST END: Retractable Sheath Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation,nylon.
WIRE: 18 AWG, 65 x 36 t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: In-line Banana Jack. Brass, nickel plated. Insulation, polypropylene.
RATING: 1200 V AC/DC Max., 7 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

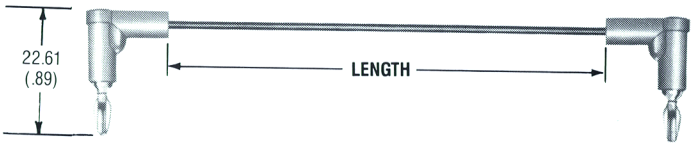
MINIATURE STACKING BANANA PLUG EACH END

MODEL	Length	LIST
1081-4-*	101.6 (4.0)	4.60
1081-8-*	203.2 (8.0)	4.60
1081-12-*	304.8 (12.0)	4.60
1081-18-*	457.2 (18.0)	4.60
1081-24-*	609.6 (24.0)	4.60
1081-36-*	914.4 (36.0)	4.60
1081-48-*	1219.2 (48.0)	4.80
1081-60-*	1524.0 (60.0)	4.95

1ST END: Stacking Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.

WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.
2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIATURE STACKING RIGHT ANGLE BANANA PLUG EACH END

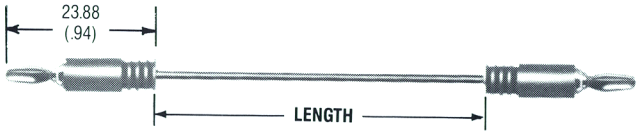


MODEL	Length	LIST
2860-4-*	101.6 (4.0)	5.25
2860-8-*	203.2 (8.0)	5.25
2860-12-*	304.8 (12.0)	5.25
2860-18-*	457.2 (18.0)	5.25
2860-24-*	609.6 (24.0)	5.25

1ST END: Stacking Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.

WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.
2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MINIATURE BANANA PLUG EACH END

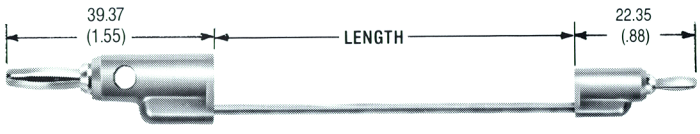


MODEL	Length	LIST
2842-4-*	101.6 (4.0)	5.25
2842-8-*	203.2 (8.0)	5.25
2842-12-*	304.8 (12.0)	5.25
2842-18-*	457.2 (18.0)	5.25
2842-24-*	609.6 (24.0)	5.25
2842-36-*	914.4 (36.0)	5.25
2842-48-*	1219.2 (48.0)	5.45
2842-60-*	1524.0 (60.0)	5.65

1ST END: Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

STACKING BANANA PLUG TO MINIATURE STACKING BANANA PLUG



MODEL	Length	LIST
3014-12-*	304.8 (12.0)	4.50
3014-18-*	457.2 (18.0)	4.50
3014-24-*	609.6 (24.0)	4.50
3014-36-*	914.4 (36.0)	4.50
3014-48-*	1219.2 (48.0)	4.70
3014-60-*	1524.0 (60.0)	4.90

1ST END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
WIRE: 20 AWG, 41 x 36 t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Stacking Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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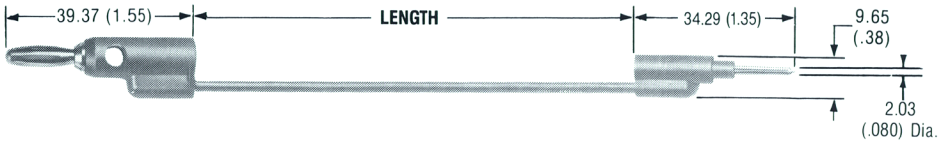
STACKING BANANA PLUG TO STACKING PIN TIP PLUG

Adapts to equipment using banana jacks and pin jacks. Banana plug and pin tip allow vertical stackup.

MODEL	Length	LIST
1126-4-*	101.6 (4.0)	3.85
1126-8-*	203.2 (8.0)	3.85
1126-12-*	304.8 (12.0)	3.85
1126-18-*	457.2 (18.0)	3.85
1126-24-*	609.6 (24.0)	3.85
1126-36-*	914.4 (36.0)	3.85
1126-48-*	1219.2 (48.0)	4.05
1126-60-*	1524.0 (60.0)	4.25

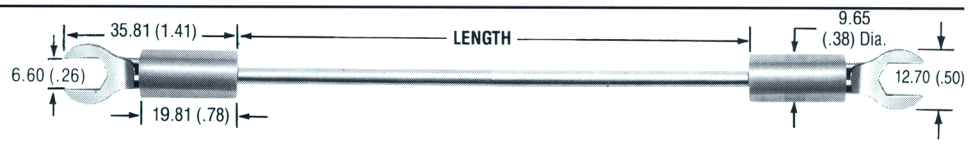


1ST END: Stacking Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Stacking Pin Tip Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED SPADE LUG, EACH END

MODEL	Length	LIST
1743-12-*	304.8 (12.0)	6.70
1743-24-*	609.6 (24.0)	6.70
1743-36-*	914.4 (36.0)	6.70
1743-48-*	1219.2 (48.0)	6.90
1743-60-*	1524.0 (60.0)	7.10



1ST END: Spade Lug. Brass, nickel plated. Insulation, polypropylene
WIRE: 18 AWG, 65 x 36, t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 5000 WVDC, 7 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

ALLIGATOR CLIP, EACH END

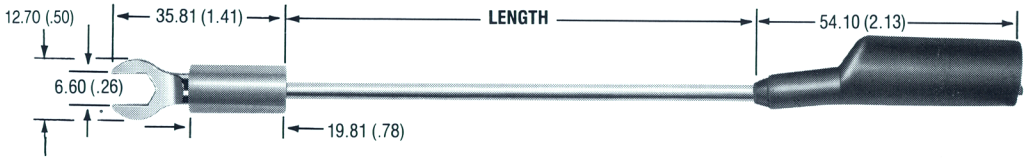
MODEL	Length	LIST
AL-B-4-*	101.6 (4.0)	3.75
AL-B-8-*	203.2 (8.0)	3.75
AL-B-12-*	304.8 (12.0)	3.75
AL-B-24-*	609.6 (24.0)	3.75
AL-B-36-*	914.4 (36.0)	3.75
AL-B-48-*	1219.2 (48.0)	3.95
AL-B-60-*	1524.0 (60.0)	4.15

1ST END: Alligator Clip. Steel, nickel plated. Vinyl boot.
WIRE: 18 AWG, 65 x 36, t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 5000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED SPADE LUG TO ALLIGATOR CLIP

MODEL	Length	LIST
1960-12-*	304.8 (12.0)	6.20
1960-24-*	609.6 (24.0)	6.20
1960-36-*	914.4 (36.0)	6.20
1960-48-*	1219.2 (48.0)	6.40
1960-60-*	1524.0 (60.0)	6.60



1ST END: Spade Lug. Brass, nickel plated. Insulation, polypropylene.
WIRE: 18 AWG, 65 x 36, t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Alligator Clip. Steel, nickel plated. Vinyl boot.
RATING: 5000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED MINIGATOR CLIP, EACH END - 18 AWG

MODEL	Length	LIST
MG-B-4-*	101.6 (4.0)	3.85
MG-B-8-*	203.2 (8.0)	3.85
MG-B-12-*	304.8 (12.0)	3.85
MG-B-24-*	609.6 (24.0)	3.85
MG-B-36-*	914.4 (36.0)	3.85
MG-B-48-*	1219.2 (48.0)	4.05
MG-B-60-*	1524.0 (60.0)	4.25

1ST END: Minigator Clip. Steel, nickel plated. Vinyl boot.
WIRE: 18 AWG, 65 x 36, t.c., PVC insulated, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 5000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED MINIGATOR CLIP, EACH END - 20 AWG

MODEL	Length	LIST
1236-4-*	101.6 (4.0)	3.60
1236-8-*	203.2 (8.0)	3.60
1236-12-*	304.8 (12.0)	3.60
1236-24-*	609.6 (24.0)	3.60
1236-36-*	914.4 (36.0)	3.60
1236-48-*	1219.2 (48.0)	3.80
1236-60-*	1524.0 (60.0)	4.00

1ST END: Minigator Clip. Steel, nickel plated. Vinyl boot.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED MICROGATOR† CLIP, EACH END - 20 AWG

MODEL	Length	LIST
1613-4-*	101.6 (4.0)	4.40
1613-8-*	203.2 (8.0)	4.40
1613-12-*	304.8 (12.0)	4.40
1613-24-*	609.6 (24.0)	4.40
1613-36-*	914.4 (36.0)	4.40
1613-48-*	1219.2 (48.0)	4.40

1ST END: Microgator Clip. Copper. Vinyl boot.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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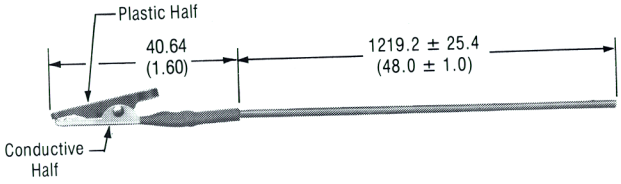
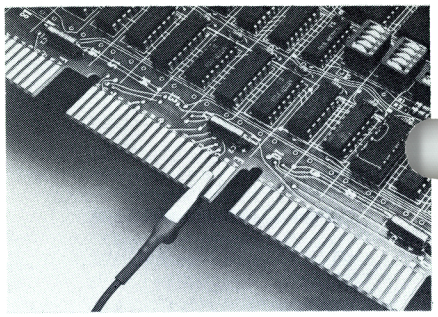
† Microgator is a trademark of Mueller Electric Co.

P.C. BOARD TEST CLIP PATCH CORD

This patch cord is conductive only on the lower half of the minigator clip. The upper half is insulated to keep the clip from contacting circuitry on the opposite side of the board. The patch cord is supplied with 1219.2 (48.0) length of 20 AWG wire which can be cut to the desired length or be terminated with the desired plug or jack.





1ST END: Test Clip. Upper half, polycarbonate. Lower half, steel, nickel plated.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.
2ND END: None.
RATING: +115°C. (+239°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

MODEL	LIST
4931-48-*	6.50

INSULATED MINIGATOR CLIP TO MINIATURE STACKING BANANA PLUG

MODEL	Length	LIST
3222-24-*	609.6 (24.0)	4.70
3222-36-*	914.1 (36.0)	4.70
3222-48-*	1219.2 (48.0)	4.80

1ST END: Minigator Clip. Steel, nickel plated. Vinyl boot.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.
2ND END: Stacking Miniature Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

INSULATED MINIGATOR CLIP TO SQUARE PIN RECEPTACLE

This patch cord is used as a jumper for circuit cards with 0.64 (.025) square pins.

MODEL	Length	LIST
4974-12-*	304.8 (12.0)	4.40
4974-24-*	609.6 (24.0)	4.40
4974-36-*	914.1 (36.0)	4.40

1ST END: Minigator Clip. Steel, cadmium plated. Vinyl boot.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.
2ND END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

SQUARE PIN RECEPTACLE, EACH END

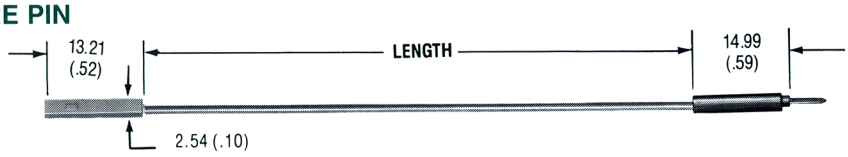
This patch cord is excellent for use as a jumper circuit for P.C. boards with 0.64 (.025) sq. pins.

MODEL	Length	LIST
4741-6-*	152.4 (6.0)	3.20
4741-12-*	304.8 (12.0)	3.20
4741-24-*	609.6 (24.0)	3.20
4741-36-*	914.1 (36.0)	3.20

1ST END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.
2ND END: Same as first end.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White.

SQUARE PIN RECEPTACLE TO SQUARE PIN

This patch cord can be used as a jumper or as an extension patch cord with any of the other models on this page having 0.64 (.025) sq. pin receptacles or pins.

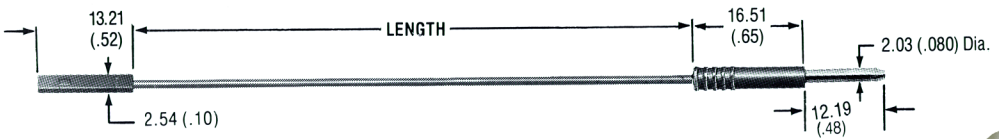


MODEL	Length	LIST
4992-6-*	152.4 (6.0)	3.75
4992-12-*	304.8 (12.0)	3.75
4992-24-*	609.6 (24.0)	3.75
4992-36-*	914.4 (36.0)	3.75
4992-48-*	1219.2 (48.0)	3.95

1ST END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.
2ND END: 0.64 (.025) Square Pin. Phosphor bronze, gold plated. Insulation, ABS.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red. .

SQUARE PIN RECEPTACLE TO 2.03 (.080) PIN TIP PLUG

This patch cord can be used as a jumper between 0.64 (.025) sq. pins and equipment with 2.03 (.080) dia. pin jacks.



MODEL	Length	LIST
4772-12-*	304.8 (12.0)	3.60
4772-24-*	609.6 (24.0)	3.60
4772-36-*	914.4 (36.0)	3.60

1ST END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.
2ND END: Pin Tip Plug. Brass, gold plated. Insulation, polypropylene.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red. .

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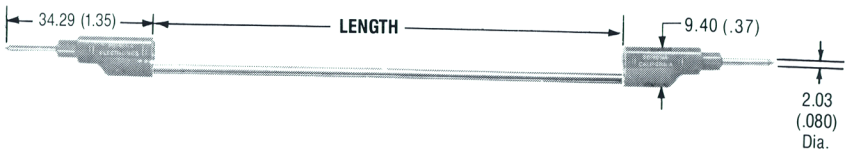
STACKING PIN TIP PLUG, EACH END

A must in circuit designing and testing with instruments that utilize tip jacks.



MODEL	Length	LIST
P-4-*	101.6 (4.0)	3.96
P-8-*	203.2 (8.0)	3.95
P-12-*	304.8 (12.0)	3.95
P-18-*	457.2 (18.0)	3.95
P-24-*	609.6 (24.0)	3.95
P-36-*	914.4 (36.0)	3.95
P-48-*	1219.2 (48.0)	4.15
P-60-*	1524.0 (60.0)	4.35

1ST END: Stacking Pin Tip Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

STACKING PIN TIP PLUG EXTENSION

Dual purpose, insulates exposed leads when used as an extension cord. Endless extension coupling possible. Also provides stacking from 2.03 (.080) jack.

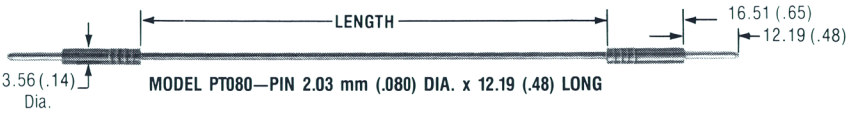
MODEL	Length	LIST
1727-8-*	203.2 (8.0)	6.90
1727-12-*	304.8 (12.0)	6.90
1727-18-*	457.2 (18.0)	6.90
1727-24-*	609.6 (24.0)	6.90
1727-36-*	914.4 (36.0)	6.90

1ST END: Stacking Pin Tip Plug. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.
WIRE: 20 AWG, 41 x 36, t.c., PVC insulated, 2.21 (.087) O.D.

2ND END: Same as first end.
RATING: 3000 WVDC, 5 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

HIGH DENSITY PIN TIP PLUG, EACH END

Small body style permits usage in equipment having receptacles spaced closely together.

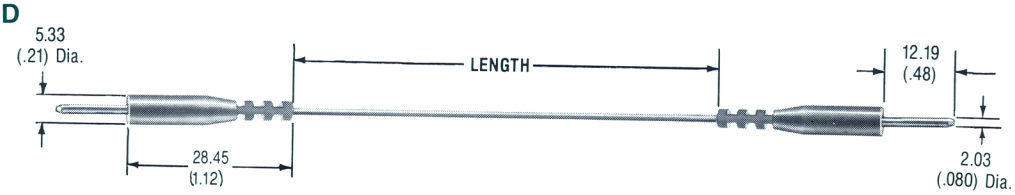


MODEL	Length	LIST
PT080-4-*	101.6 (4.0)	3.35
PT080-8-*	203.2 (8.0)	3.35
PT080-12-*	304.8 (12.0)	3.35
PT080-18-*	457.2 (18.0)	3.35
PT080-24-*	609.6 (24.0)	3.35
PT080-36-*	914.4 (36.0)	3.35
PT080-48-*	1219.2 (48.0)	3.55
PT080-60-*	1524.0 (60.0)	3.75

1ST END: Pin Tip Plug. Brass, gold plated. Insulation, polypropylene.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 3 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

PIN TIP PLUG, EACH END



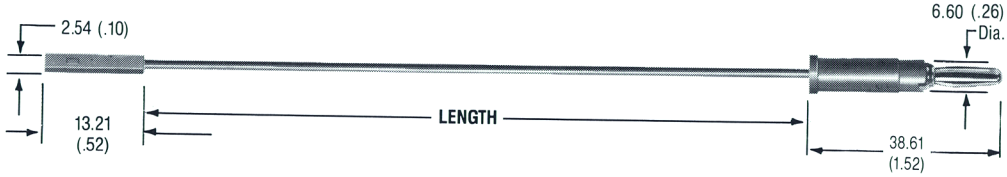
MODEL	Length	LIST
5153-12-*	304.8 (12.0)	3.70
5153-18-*	457.2 (18.0)	3.70
5153-24-*	609.6 (24.0)	3.70
5153-36-*	914.4 (36.0)	3.70
5153-48-*	1219.2 (48.0)	3.90
5153-60-*	1524.0 (60.0)	4.10

1ST END: Pin Tip Plug. Brass, gold plated. Insulation, PVC.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.

2ND END: Same as first end.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

SQUARE PIN RECEPTACLE TO BANANA PLUG

This patch cord is excellent for use as a jumper on circuit cards with 0.64 (.025) sq. pins and equipment with 4.22 (.166) dia. pin jacks.



MODEL	Length	LIST
4771-12-*	304.8 (12.0)	4.05
4771-24-*	609.6 (24.0)	4.05
4771-36-*	914.1 (36.0)	4.05
4771-48-*	1219.1 (48.0)	4.25

1ST END: 0.64 (.025) Square Pin Receptacle. Phosphor bronze, gold plated. Insulation, ABS.
WIRE: 22 AWG, 26 x 36, t.c., PVC insulated, 1.63 (.064) O.D.

2ND END: In-line Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene.
RATING: 1000 WVDC, 3 Amps, +50°C. (+122°F.) Max.
***STD COLORS:** -0 Black, -2 Red. .

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HIGH CONDUCTIVITY ETP COPPER, ALLOY 110 LEADS FOR PRECISION MEASUREMENTS

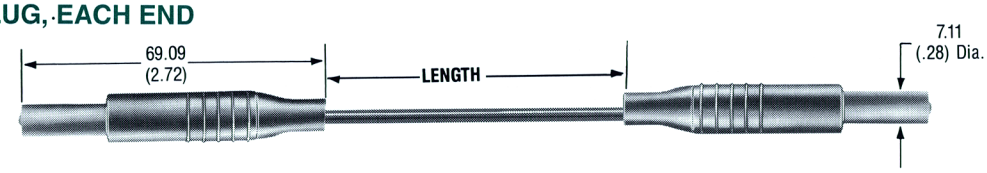
Pomona Electronics offers products for use in measurements when thermoelectric effects are significant sources of error. Comparators designed for use with the Kelvin-Varley voltage divider and microvolt leads were tested with primary standards laboratory equipment.

Thermoelectric voltages were not detected until the most sensitive galvanometer range was used.

Thermoelectric properties - High Conductivity ETP Copper, Alloy 110, gold plated spade lugs cold-staked to multi-stranded 12 gauge copper wire minimize thermoelectric effects - an absolute necessity for low voltage, high precision measurements.

Low resistance -12 gauge multi-stranded copper wire results in extremely low cable resistance. Spade lugs plated with 15 micro inches gold for minimum contact resistance and minimum thermal EMF when using copper binding posts (less than 0.01 μV/°C).

LOW THERMAL EMF RETRACTABLE SHEATH BANANA PLUG, EACH END

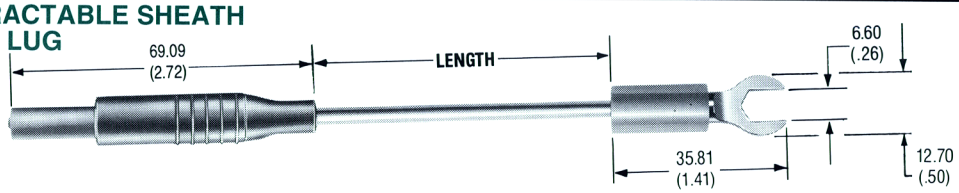


MODEL	Length	LIST
5291-12-*	304.8 (12.0)	12.10
5291-36-*	914.1 (36.0)	12.10
5291-60-*	1524.0 (60.0)	13.40

1ST END: Sheathed Banana Plug. Tellurium copper body, beryllium copper spring, gold plated. Insulation, nylon.
WIRE: 12 AWG, 7 x 38/36 bare copper, PVC jacket, 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 1200 V AC/DC Max., 7 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LOW THERMAL EMF RETRACTABLE SHEATH BANANA PLUG TO SPADE LUG

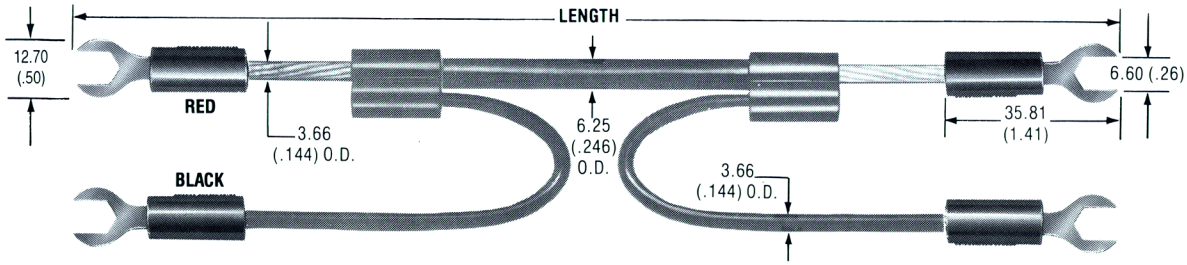


MODEL	Length	LIST
5295-36-*	914.1 (36.0)	12.60

1ST END: Sheathed Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, nylon.
WIRE: 12 AWG, 7 x 38/36 bare copper, PVC jacket, 3.66 (.144) O.D.

2ND END: Spade Lug. ETP copper, alloy 110, gold plated. Insulation, polypropylene.
RATING: 1200 V AC/DC Max., 7 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

LOW THERMAL JUMPER WITH SHIELD

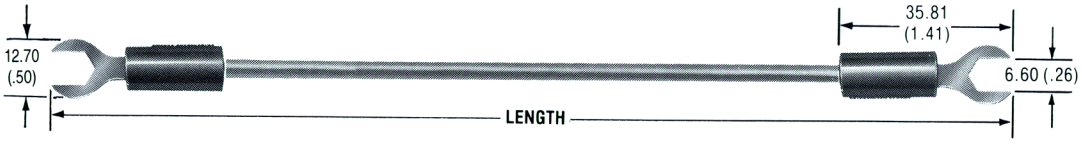


MODEL	Length	LIST
1756-24	609.6 (24.0)	32.00
1756-48	1219.2 (48.0)	35.00

Designed for use with Kelvin-Varley voltage dividers where extreme precision is required for low voltage measurements. Features guard shield to effectively reduce shunt resistance.
1ST END: Spade Lug. High conductivity ETP copper, alloy 110, gold plated. Insulation, polypropylene, one black and one red.

WIRE: 12 AWG, 7 x 38/36 bare copper, polyethylene insulation. Braid shield bare copper, PVC jacket. 6.25 (.246) O.D. per MIL-C-17A.
2ND END: Same as first end.
RATING: 2000 WVDC, 20 Amps, +55°C. (+131°F.) Max.

LOW THERMAL SPADE LUG JUMPER



MODEL	Length	LIST
1693-36-*	914.4 (36.0)	13.20
1693-60-*	1524.0 (60.0)	15.00

Single High Conductivity ETP Copper, spade lug jumper used in applications where guard shield is not required.
1ST END: Spade Lug. High conductivity ETP copper, alloy 110, gold plated. Insulation, polypropylene, one black and one red.
WIRE: 12 AWG, 7 x 38/36 bare copper, PVC jacket 3.66 (.144) O.D.

2ND END: Same as first end.
RATING: 2000 WVDC, 20 Amps, +55°C. (+131°F.) Max.
***STD COLORS:** -0 Black, -2 Red.

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STRESS-RELIEVED/WEATHERPROOF CABLE ASSEMBLIES

The following cable assemblies with molded boot feature extra-long, stress-relieved PVC molded directly onto cable jacket and connector body. The advantages are stress protection against failure from excess bending, flexing & twisting and a weatherproof seal between cable and connector.

BNC MALE, EACH END

RG58C/U 50 Ohm	LIST	RG59B/U 75 Ohm	LIST	RG174/U 50 Ohm	LIST	RG62A/U 93 Ohm	LIST	Length
2249-C-12	9.90	2249-E-12	10.50	2249-K-12	14.90	2249-M-12	11.10	304.8 (12.0)
2249-C-24	10.50	2249-E-24	11.10	2249-K-24	15.50	2249-M-24	11.70	609.6 (24.0)
2249-C-36	11.00	2249-E-36	11.70	2249-K-36	16.10	2249-M-36	12.30	914.4 (36.0)
2249-C-48	11.80	2249-E-48	12.30	2249-K-48	16.70	2249-M-48	12.90	1219.2 (48.0)
2249-C-60	12.50	2249-E-60	12.90	2249-K-60	17.30	2249-M-60	13.50	1524.0 (60.0)
2249-C-72	13.10	2249-E-72	13.50					1828.8 (72.0)
2249-C-120	15.70							3048.0(120.0)
2249-C-180	19.00							4572.0(180.0)

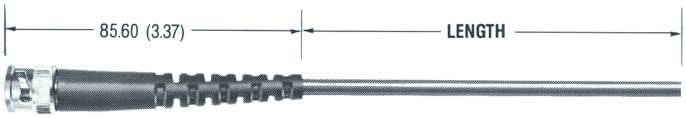
1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: RG58C/U 4.95 (.195) O.D.
RG59B/U 6.15 (.242) O.D.
RG62A/U 6.15 (.242) O.D.
RG174/U 2.54 (.100) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

LOW COST BNC CABLE

MODEL	Length	LIST
5696-12	304.8 (12.0)	6.25
5696-24	609.6 (24.0)	6.80
5696-36	914.4 (36.0)	7.15
5696-48	1219.2 (48.0)	8.00
5696-60	1524.0 (60.0)	8.50
5696-72	1828.8 (72.0)	9.10
5696-120	3048.0(120.0)	11.00

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass. Impedance: 50 Ohms. Boot, thermoplastic, black.
CABLE: RG 58 type, 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

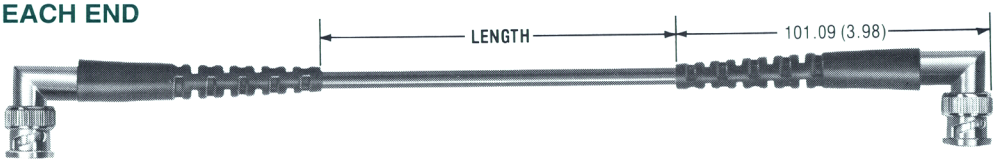
BNC MALE, ONE END ONLY



MODEL	Length	LIST
5266-C-60	1524.0 (60.0)	8.55

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: RG58C/U, 4.95 (.195) O.D.
2ND END: None.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

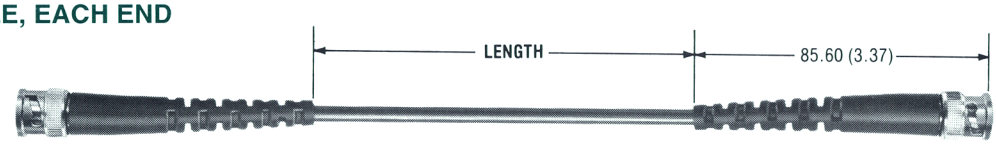
RIGHT ANGLE BNC MALE, EACH END



MODEL	Length	LIST
4276-C-12	304.8 (12.0)	25.95
4276-C-24	609.6 (24.0)	26.55
4276-C-36	914.4 (36.0)	27.15
4276-C-48	1219.2 (48.0)	27.75
4276-C-60	1524.0 (60.0)	28.35

1ST END: Crimp BNC Male, right angle. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: RG58C/U, 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

LOW-NOISE BNC MALE, EACH END



MODEL	Length	LIST
4964-SS-24	609.6 (24.0)	13.15
4964-SS-36	914.4 (36.0)	14.65
4964-SS-48	1219.2 (48.0)	16.15
4964-SS-60	1524.0 (60.0)	17.65

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
CABLE: Belden 9223 or equivalent, 50 Ohm, 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

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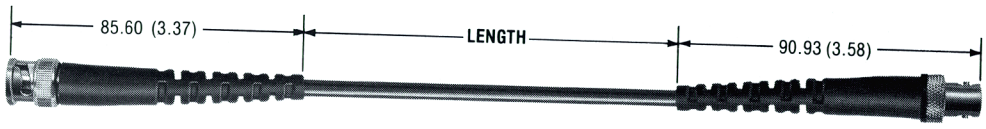
BNC MALE TO BNC FEMALE



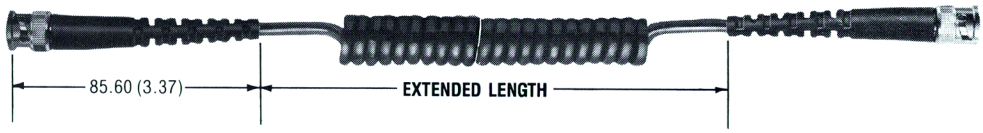
MODEL	Length	LIST
4524-C-12	304.8 (12.0)	13.25
4524-C-24	609.6 (24.0)	13.85
4524-C-36	914.4 (36.0)	14.45
4524-C-48	1219.2 (48.0)	15.05
4524-C-60	1524.0 (60.0)	15.65

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Crimp BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE ON RETRACTILE (COILED) CORD



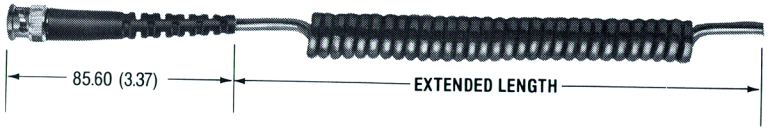
MODEL	Extended Length	LIST
4487-48	1219.2 (48.0)	34.95
4487-60	1524.0 (60.0)	35.85
4487-72	1829.0 (72.0)	36.75

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: Shielded microphone. Center conductor, 24 AWG (45 x 40), polyurethane jacket, 4.32 (.170) O.D.

2ND END: Same as first end.
RATING: 270 VDC-90 VAC cont. duty, +50°C. (+122°F.) Max.

BNC MALE ON RETRACTILE (COILED) CORD, ONE END ONLY



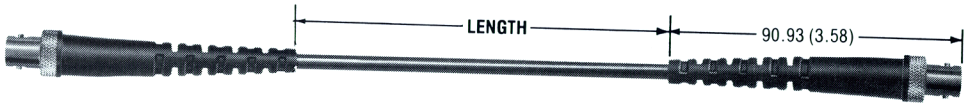
MODEL	Extended Length	LIST
5260-48	1219.2 (48.0)	23.95
5260-60	1524.0 (60.0)	24.85
5260-72	1829.0 (72.0)	25.75

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: Shielded microphone. Center conductor, 24 AWG (45 x 40), polyurethane jacket, 4.32 (.170) O.D.

2ND END: None
RATING: 270 VDC-90 VAC cont. duty, +50°C. (+122°F.) Max.

BNC FEMALE, EACH END



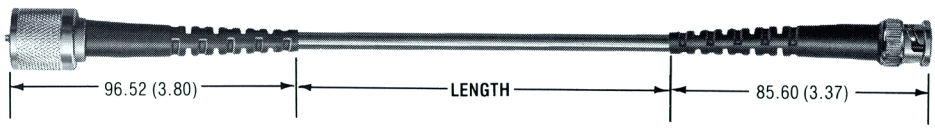
MODEL	Length	LIST
4277-C-12	304.8 (12.0)	15.25
4277-C-24	609.6 (24.0)	15.85
4277-C-36	914.4 (36.0)	16.45
4277-C-48	1219.2 (48.0)	17.05
4277-C-60	1524.0 (60.0)	17.65

1ST END: Crimp BNC Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Impedance: 50 Ohms. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

UHF MALE TO BNC MALE



MODEL	Length	LIST
1367-C-18	457.2 (18.0)	15.20
1367-C-24	609.6 (24.0)	15.50
1367-C-36	914.4 (36.0)	16.10
1367-C-48	1219.2 (48.0)	16.70
1367-C-60	1524.0 (60.0)	17.30

1ST END: Crimp UHF Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: Nonconstant. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

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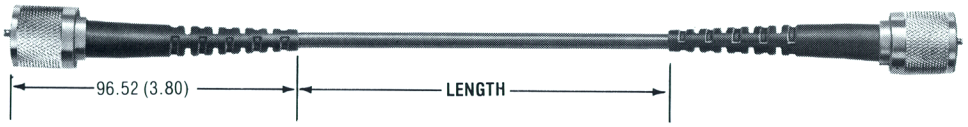
UHF MALE, EACH END



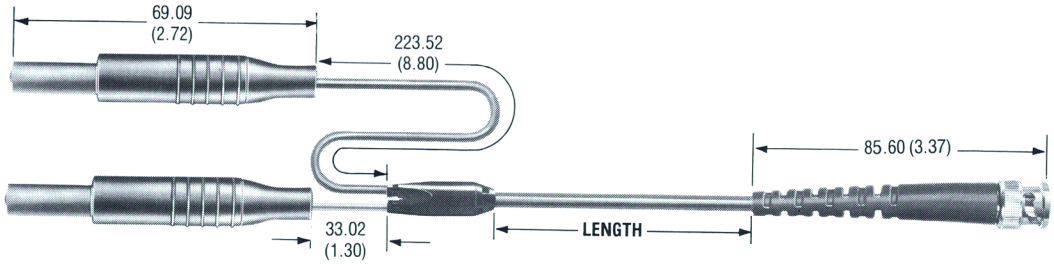
MODEL	Length	LIST
UHF-C-18	457.2 (18.0)	17.15
UHF-C-24	609.6 (24.0)	17.45
UHF-C-36	914.4 (36.0)	18.05
UHF-C-48	1219.2 (48.0)	18.65
UHF-C-60	1524.0 (60.0)	19.25

1ST END: Crimp UHF Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: Nonconstant. Boot, PVC, black.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

RETRACTABLE SHEATH BANANA PLUGS TO BNC MALE



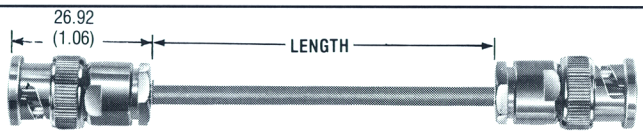
MODEL	Length	LIST
5343-C-12	304.8 (12.0)	16.60
5343-C-24	609.6 (24.0)	16.60
5343-C-36	914.4 (36.0)	16.60
5343-C-48	1219.2 (48.0)	17.20
5343-C-60	1524.0 (60.0)	17.80

1ST END: Sheathed Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, nylon.

CABLE: Shielded coaxial RG58C/U, 4.95 (.195) O.D. Y-mold insulation, PVC, black.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE, EACH END



MODEL	Length	LIST
BNC-C-18	457.2 (18.0)	11.50
BNC-C-24	609.6 (24.0)	11.80
BNC-C-36	914.4 (36.0)	12.50
BNC-C-48	1219.2 (48.0)	13.10
BNC-C-60	1524.0 (60.0)	13.80

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated.
CABLE: RG 58C/U 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 500 VRMS Max.; +80°C. (+176°F.) Max.

LOW COST BNC CABLE

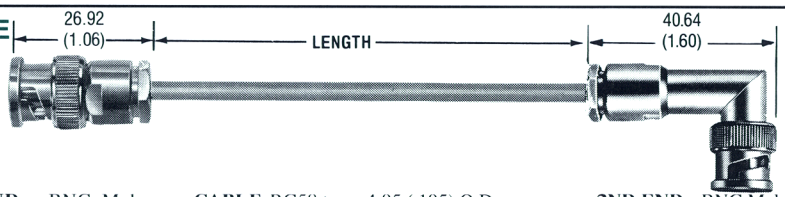
MODEL	Length	LIST
5697-12	304.8 (12.0)	5.50
5697-24	609.6 (24.0)	6.00
5697-36	914.4 (36.0)	6.55
5697-48	1219.2 (48.0)	7.10
5697-60	1524.0 (60.0)	7.65
5697-72	1828.8 (72.0)	8.20
5697-120	3048.0(120.0)	10.50

1ST END: BNC Male. Brass body. Center contact, brass. Impedance: 50 Ohms.

CABLE: RG58 type, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

BNC MALE TO RIGHT ANGLE BNC MALE



MODEL	Length	LIST
1383-C-18	457.2 (18.0)	21.95
1383-C-24	609.6 (24.0)	22.25
1383-C-36	914.4 (36.0)	22.85
1383-C-48	1219.2 (48.0)	23.45
1383-C-60	1524.0 (60.0)	24.05

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58 type, 4.95 (.195) O.D.

2ND END: BNC Male, right angle. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

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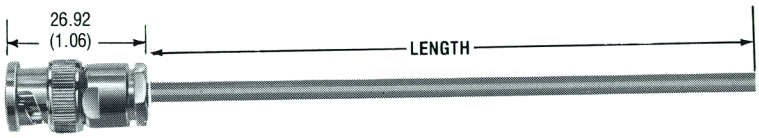
BNC MALE, ONE END ONLY



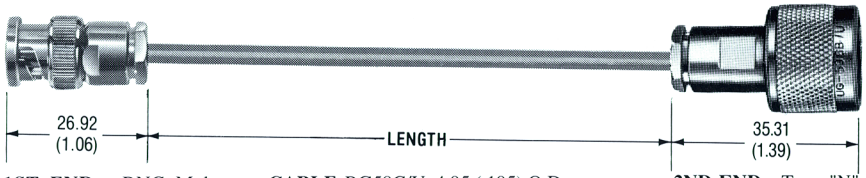
MODEL	Length	LIST
1661-C-60	1524.0 (60.0)	9.70

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: None.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

BNC MALE TO TYPE "N" MALE



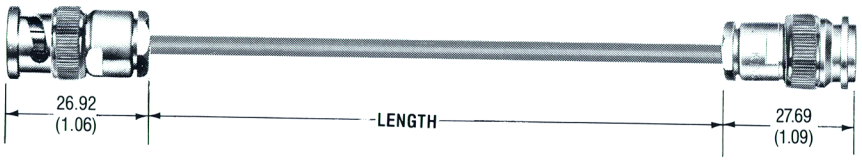
MODEL	Length	LIST
1366-C-24	609.6 (24.0)	14.75
1366-C-36	914.4 (36.0)	15.35
1366-C-48	1219.2 (48.0)	15.95

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Type "N" Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

BNC MALE TO TNC MALE



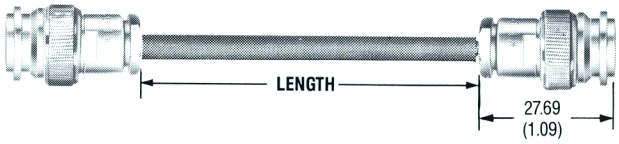
MODEL	Length	LIST
1948-C-12	304.8 (12.0)	15.75
1948-C-24	609.6 (24.0)	16.35
1948-C-36	914.4 (36.0)	16.95
1948-C-48	1219.2 (48.0)	17.55
1948-C-60	1524.0 (60.0)	18.15

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: TNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

TNC MALE, EACH END



MODEL	Length	LIST
1944-C-12	304.8 (12.0)	19.15
1944-C-18	457.2 (18.0)	19.45
1944-C-24	609.6 (24.0)	19.75
1944-C-36	914.4 (36.0)	20.35
1944-C-48	1219.2 (48.0)	20.95
1944-C-60	1524.0 (60.0)	21.55

1ST END: TNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

"PUSH-ON"BNC MALE, EACH END

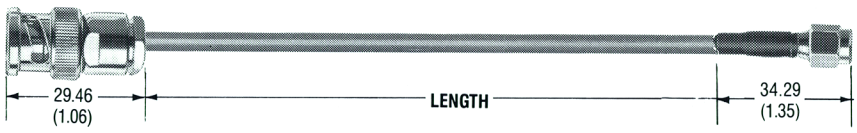
MODEL	Length	LIST
3199-C-12	304.8 (12.0)	11.25
3199-C-24	609.6 (24.0)	11.85
3199-C-36	914.4 (36.0)	12.45
3199-C-48	1219.2 (48.0)	13.05
3199-C-60	1524.0 (60.0)	13.65

1ST END: Crimp push-on BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG58C/U, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

BNC MALE TO SMA MALE



MODEL	Length	LIST
4935-BB-24	609.6 (24.0)	28.95
4935-BB-48	1219.2 (48.0)	32.95
4935-BB-60	1524.0 (60.0)	34.95

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG316/U, 2.49 (.098) O.D.

2ND END: Crimp SMA Male. Passivated steel shell. Gold plated center contact.
RATING: 335 VRMS Max., +165°C. (+329°F.) Max.

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These coaxial cables allow testing of frequencies up to 12.4 Gigahertz. Microwave coaxial cables can also be built to your specifications on special order. Just tell us the length you want, the cable you would prefer (it can even be your special cable) and what type of connectors. We will be happy to quote prices.

CABLE CHARACTERISTICS:

CABLE: RG 174/U coaxial cable
CHARACTERISTICS:
Impedance: 50 Ohms
Cable O.D.: 2.54 (.100)
Loss: .45 dB/ft at 1.0 GHz Max.
Temperature: +85°C. (+185°F.) Max.

CABLE: RG 316/U coaxial cable
CHARACTERISTICS:
Impedance: 50 Ohms
Cable O.D.: 2.49 (.098)
Loss: .56 dB/ft at 3.0 GHz Max.
Temperature: +200°C. (+392°F.) Max.

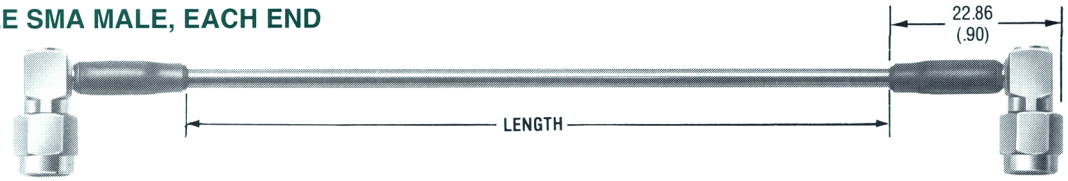
CABLE: RG 142 B/U coaxial cable
CHARACTERISTICS:
Impedance: 50 Ohms
Cable O.D.: 4.95 (.195)
Loss: .67 dB/ft at 12.4 GHz Max.
Temperature: +200°C. (+392°F.) Max.

SMA MALE, EACH END

MODEL RG 174/U	LIST	MODEL RG 316/U	LIST	MODEL RG 142B/U	LIST	Length
4846-K-24	29.95	4846-BB-24	31.95	4846-X-24	37.95	609.6 (24.0)
4846-K-48	31.15	4846-BB-48	35.95	4846-X-48	47.95	1219.2 (48.0)
4846-K-60	31.75	4846-BB-60	37.95	4846-X-60	52.95	1524.0 (60.0)

1ST END: Crimp SMA Male. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance, 50 Ohms.
CABLE: (See top of page for characteristics.)
2ND END: Same as first end.

RIGHT ANGLE SMA MALE, EACH END



MODEL RG 174/U	LIST	MODEL RG 316/U	LIST	MODEL RG 142B/U	LIST	Length
4813-K-24	44.95	4813-BB-24	47.95	4813-X-24	60.95	609.6 (24.0)
4813-K-48	46.15	4813-BB-48	51.95	4813-X-48	70.95	1219.2 (48.0)
4813-K-60	46.75	4813-BB-60	53.95	4813-X-60	75.95	1524.0 (60.0)

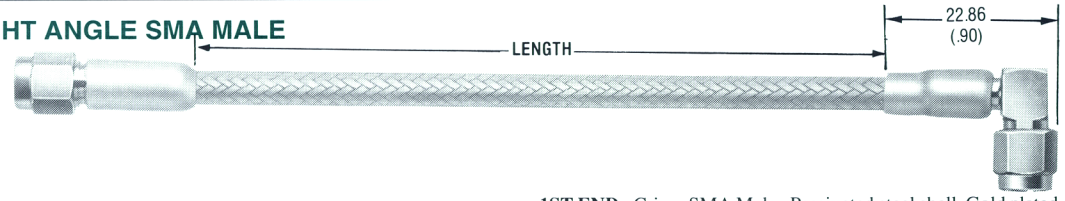
1ST END: Crimp SMA Male, right angle. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance, 50 Ohms.
CABLE: (See top of page for characteristics.)
2ND END: Same as first end.

SMA MALE TO SMA FEMALE

MODEL RG 174/U	LIST	MODEL RG 316/U	LIST	MODEL RG 142B/U	LIST	Length
4528-K-24	34.60	4528-BB-24	36.60	4528-X-24	42.60	609.6 (24.0)
4528-K-48	35.80	4528-BB-48	40.60	4528-X-48	52.60	1219.2 (48.0)
4528-K-60	36.40	4528-BB-60	42.60	4528-X-60	57.60	1524.0 (60.0)

1ST END: Crimp SMA Male. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance, 50 Ohms.
CABLE: (See top of page for characteristics.)
2ND END: Crimp SMA Female. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance, 50 Ohms.

SMA MALE TO RIGHT ANGLE SMA MALE



MODEL RG 174/U	LIST	MODEL RG 316/U	LIST	MODEL RG 142B/U	LIST	Length
4814-K-24	41.75	4814-BB-24	46.15	4814-X-24	49.35	609.6 (24.0)
4814-K-48	42.95	4814-BB-48	50.15	4814-X-48	59.35	1219.2 (48.0)
4814-K-60	43.55	4814-BB-60	52.15	4814-X-60	64.35	1524.0 (60.0)

1ST END: Crimp SMA Male. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance, 50 Ohms.
CABLE: (See top of page for characteristics.)
2ND END: Crimp SMA Male, right angle. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-93012. Impedance, 50 Ohms.

SMA MALE TO TYPE "N" MALE

MODEL	Length	LIST
5058-X-12	304.8 (12.0)	32.15
5058-X-24	609.6 (24.0)	37.15
5058-X-36	914.4 (36.0)	42.15
5058-X-48	1219.2 (48.0)	47.15
5058-X-60	1524.0 (60.0)	52.15

1ST END: Crimp SMA Male. Passivated steel shell. Gold plated center contact. Meets conditions of MIL-C-39012. Impedance: 50 Ohms.

CABLE: RG142B/U coaxial cable. (See top of page for characteristics.)

2ND END: Type "N" Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.

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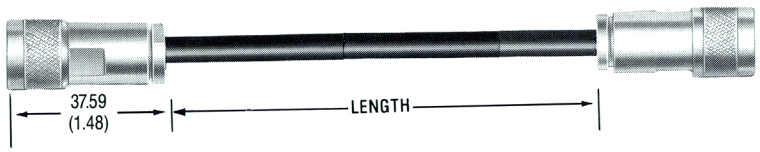
TYPE "N" MALE, EACH END



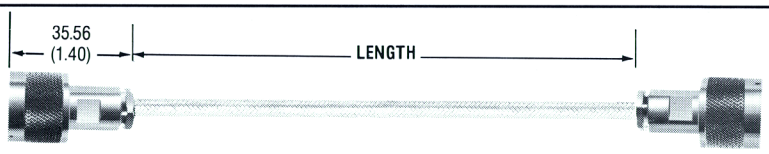
RG213/U	LIST	RG214/U	LIST	Length
1658-S-18	30.95	1658-T-18	31.85	457.2 (18.0)
1658-S-24	31.30	1658-T-24	35.35	609.6 (24.0)
1658-S-36	32.00	1658-T-36	42.35	914.4 (36.0)
1658-S-48	32.70	1658-T-48	49.35	1219.2 (48.0)
1658-S-60	33.40	1658-T-60	56.35	1524.0 (60.0)

1ST END: Type "N" Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: **RG213/U** 10.29 (.405) O.D.
RG214/U 10.80 (.425) O.D.

2ND END: Same as first end.
RATING: 1000 VRMS Max., +80°C. (+176°F.) Max.

TYPE "N" MALE, EACH END



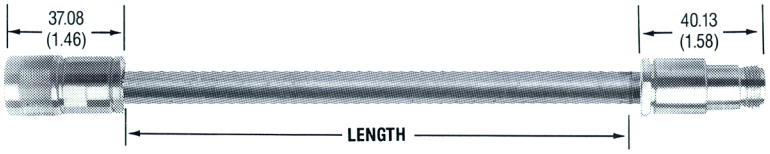
RG213/U	LIST	RG214/U	LIST	Length
2256-C-24	17.10	2256-X-24	33.40	609.6 (24.0)
2256-C-36	17.70	2256-X-36	38.40	914.4 (36.0)
2256-C-48	18.30	2256-X-48	43.40	1219.2 (48.0)
2256-C-60	18.90	2256-X-60	48.40	1524.0 (60.0)

1ST END: Type "N" Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: **RG58C/U** 4.95 (.195) O.D.
RG142B/U 4.95 (.195)O.D.

2ND END: Same as first end.
RATING: 1000 VRMS Max., 2256-C, +80°C. (+176°F.) Max.; 2256-X, +165°C. (+329°F.) Max.

TYPE "N" MALE TO TYPE "N" FEMALE



MODEL	Length	LIST
4496-T-18	457.2 (18.0)	35.10
4496-T-24	609.6 (24.0)	38.60
4496-T-36	914.4 (36.0)	45.60
4496-T-48	1219.2 (48.0)	52.60
4496-T-60	1524.0 (60.0)	59.60

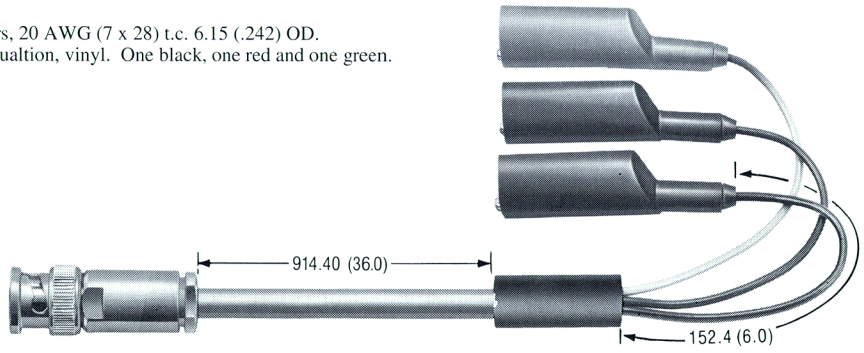
1ST END: Type "N" Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance: 50 Ohms.

CABLE: RG214/U, 10.80 (.425) O.D.

2ND END: Type "N" Female. Brass body, tarnish resistant plated. Center contact, beryllium copper, gold plated. Impedance, 50 Ohms.
RATING: 1000 VRMS Max., +80°C. (+176°F.) Max.

TRIAXIAL CABLE ASSEMBLIES

1ST END: Triaxial Male (See special features).
CABLE: Belden 9222, triaxial cable. Triaxial conductors, 20 AWG (7 x 28) t.c. 6.15 (.242) OD.
2ND END: Three alligator clips, steel, nickel plated. Insualtion, vinyl. One black, one red and one green.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

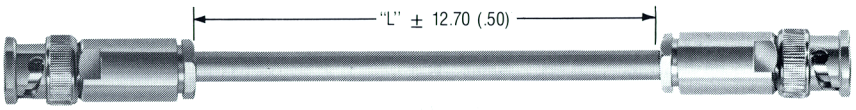


MODEL	Special Features	LIST
4725	2 Lug Triax.	64.95
5342	3 Lug Triax.	72.45

TRIAXIAL CABLE ASSEMBLIES

MODEL 3581: 1ST END: Triaxial Male, 2 Lug. (Model 3600)
CABLE: Twinaxial, Belden 9272, 6.15 (.242) O.D. Impedance, 78 Ohms.
2ND END: Same as first end.
RATING: 500 VRMS Max., +80°C. (+176°F.) Max.

MODEL	Length	LIST
3581-CC-18	457.2 (18.0)	46.95
3581-CC-24	609.6 (24.0)	46.95
3581-CC-36	914.4 (36.0)	46.95
3581-CC-48	1219.2 (48.0)	47.55
3581-CC-60	1524.0 (60.0)	48.15



MODEL 5223: 1ST END: Triaxial Male, 3 Lug. (Model 5218)
CABLE: Triaxial, Belden 9222, 6.15 (.242) O.D. Impedance, 50 Ohms.
2ND END: Same as first end.
RATING: 500 VRMS Max.

MODEL	Length	LIST
5223-36	914.4 (36.0)	65.35
5223-60	1524.0 (60.0)	70.35

MODEL 5054: 1ST END: Triaxial Male, 2 Lug. (Model 5056)
CABLE: Triaxial, Belden 9222, 6.15 (.242) O.D. Iimpedance, 50 Ohms.
2ND END: Same as first end.
RATING: 500 VRMS Max.

MODEL	Length	LIST
5054-36	914.4 (36.0)	65.35
5054-60	1524.0 (60.0)	70.35

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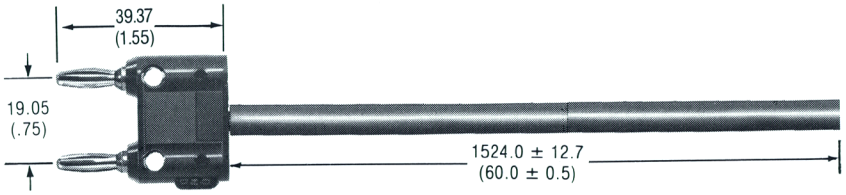
DOUBLE BANANA PLUG, ONE END ONLY



Two Cond. Twisted Pr.	RG58C/U	Length	LIST
1326-A-60	1326-C-60	1524.0 (60.0)	10.25

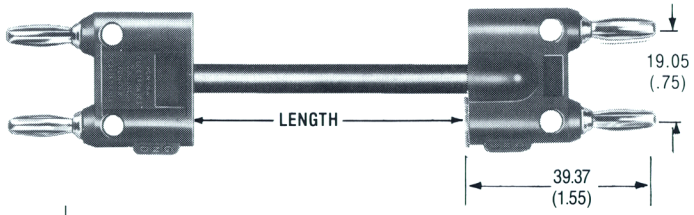
1ST END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene.

CABLE:Two Cond. Twisted Pair: 6.35 (.250) O.D., rated at 300 VRMS
RG58C/U: 4.95 (.195) O.D. rated at 1400 VRMS.

2ND END: None
RATING: +55°C. (+131°F.) Max.

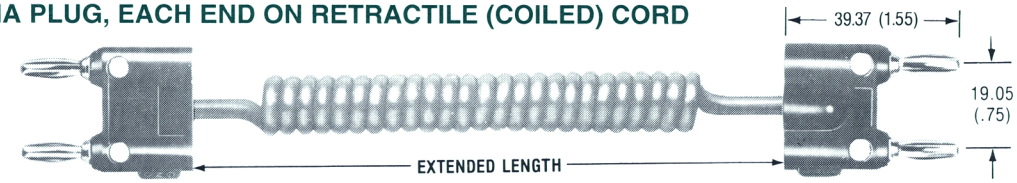
DOUBLE BANANA PLUG, EACH END

1ST END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insuation, polyethylene.
CABLE: Two Cond Twisted Pair: 6.35 (.250) O.D., rated at 300 VRMS;
Shielded Mic.: 4.95 (.195) O.D., rated at 1900 VRMS ;
RG58C/U: 4.95 (.195) O.D. rated at 1400 VRMS
RG59B/U: 6.15 (.242) O.D. rated at 1700 VRMS.
2ND END: Same as first end.
RATING: +55°C. (+131°F.) Max.



Two Cond. Twisted Pr.	LIST	Shielded Mic. Cable	LIST	RG58C/U	LIST	RG59B/U	LIST	Length
2BA-18	11.65	2BB-18	9.95	2BC-18	10.75	2BE-18	9.95	457.2 (18.0)
2BA-24	11.95	2BB-24	10.25	2BC-24	11.05	2BE-24	10.25	609.6 (24.0)
2BA-36	12.55	2BB-36	10.85	2BC-36	11.65	2BE-36	10.85	914.4 (36.0)
2BA-48	13.15	2BB-48	11.45	2BC-48	12.25	2BE-48	11.45	1219.2 (48.0)
2BA-60	13.75	2BB-60	12.05	2BC-60	12.85	2BE-60	12.05	1524.0 (60.0)

DOUBLE BANANA PLUG, EACH END ON RETRACTILE (COILED) CORD



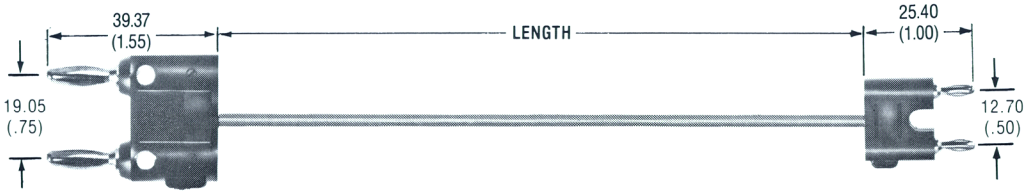
MODEL	Extended Length	LIST
3864-48	1219.2 (48.0)	21.70
3864-60	1524.0 (60.0)	22.60
3864-72	1829.0 (72.0)	23.50

1ST END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polystyrene, black.

WIRE: 24 AWG, 45 x 40 t.c., polyurethane insulated, 4.32 (.170) O.D. Color,black.

2ND END: Same as first end.
RATING: 3000 VDC Int., 270 VDC-90 VAC cont. duty, +50°C. (+122°F.) Max.

DOUBLE BANANA PLUG TO MINIATURE DOUBLE BANANA PLUG



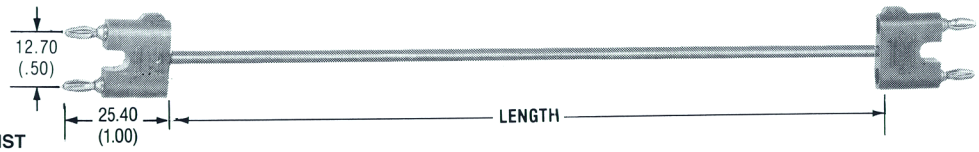
MODEL	Length	LIST
2443-K-24	609.6 (24.0)	14.50
2443-K-36	914.4 (36.0)	14.50
2443-K-48	1219.2 (48.0)	14.50
2443-K-60	1524.0 (60.0)	15.50

1ST END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.

CABLE:RG 174/U, 2.54 (.100) O.D.

2ND END: Miniature Double Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polyethylene, black.
RATING: 1100 VRMS, +55°C. (+131°F.) Max.

MINIATURE DOUBLE BANANA PLUG, EACH END



MODEL	Length	LIST
2247-K-12	304.8 (12.0)	13.50
2247-K-24	609.6 (24.0)	14.05
2247-K-36	914.4 (36.0)	14.65
2247-K-60	1524.0 (60.0)	15.25

1ST END: Miniature Double Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polyethylene, black.

WIRE: RG 174/U, 2.54 (.100) O.D.

2ND END: Same as first end.
RATING: 1100 VRMS, +55°C. (+131°F.) Max.

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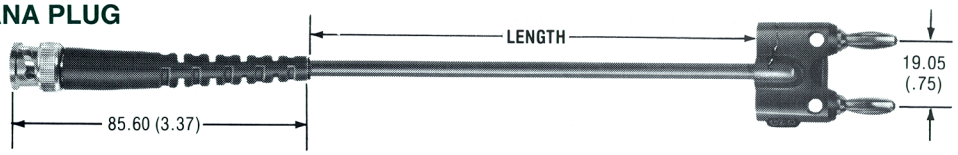
BNC MALE TO DOUBLE BANANA PLUG



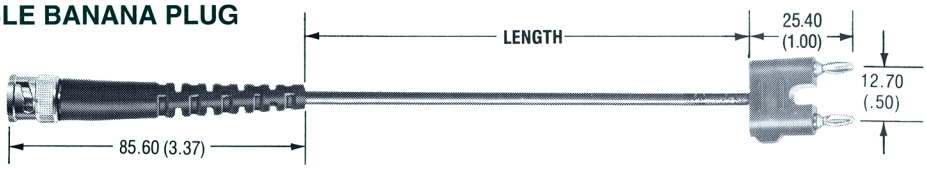
MODEL	Length	LIST
4530-C-18	457.2(18.0)	11.00
4530-C-24	609.6 (24.0)	11.60
4530-C-36	914.4 (36.0)	12.20
4530-C-48	1219.2 (48.0)	12.80
4530-C-60	1524.0 (60.0)	13.40

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms. Boot, PVC, black.

CABLE: RG 58C/U, 4.95 (.195) O.D.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE TO MINIATURE DOUBLE BANANA PLUG



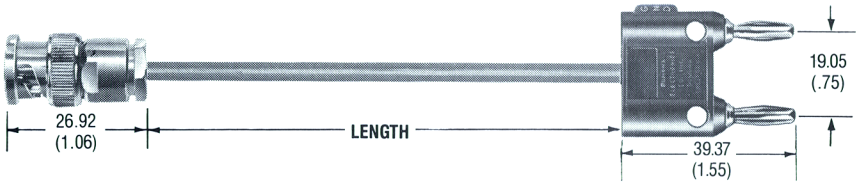
MODEL	Length	LIST
2248-K-24	609.6 (24.0)	15.75
2248-K-36	914.4 (36.0)	16.25
2248-K-48	1219.2 (48.0)	16.95
2248-K-60	1524.0 (60.0)	17.80

1ST END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms. Boot, PVC, black.

CABLE: RG 174/U, 2.54 (.100) O.D.

2ND END: Miniature Double Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polyethylene, black.
RATING: 500 VRMS Max., +50°C. (+122°F.) Max.

BNC MALE TO DOUBLE BANANA PLUG



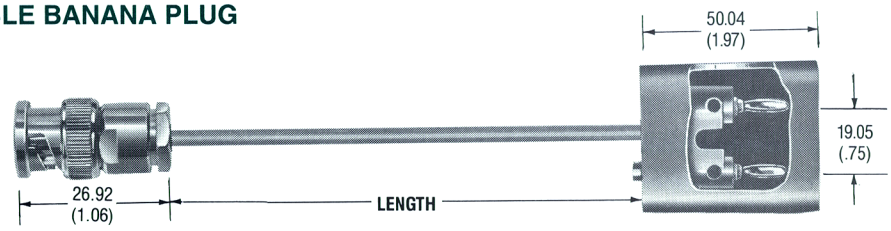
Shielded Mic. Cable	RG58C/U	Length	LIST
2BB-BNC-36	2BC-BNC-36	914.4 (36.0)	13.15

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.

CABLE: RG 58C/U: 4.95 (.195) O.D.
Shielded Mic: 4.95(.195) O.D.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 500 VRMS Max., +55°C. (+131°F.) Max.

BNC MALE TO SHIELDED DOUBLE BANANA PLUG



MODEL	Length	LIST
1555-C-36	914.4 (36.0)	35.60
1555-C-60	1524.0 (60.0)	37.50

1ST END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.

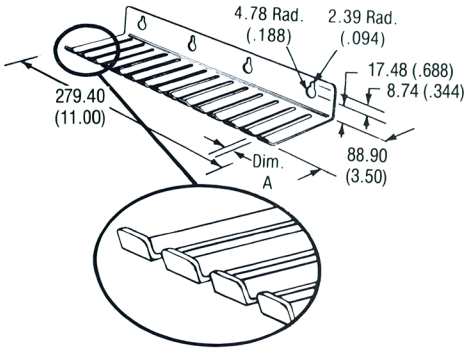
CABLE: RG 58C/U, 4.95 (.195) O.D.

2ND END: Shielded Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene. Die cast aluminum shell.
RATING: 500 VRMS Max., +55°C. (+131°F.) Max.

TEST LEAD HOLDER

No need to spend time searching for a particultar test lead. With these racks, all of your patch cold and cable assemblies can be conveniently filed for instant selection - within easy reach. Holder mounts quickly on any vertical surface. Test leads are easy to store, easy to remove. Three models to choose from for different size cables.
MATERIAL: Cold, rolled steel.
FINISH: Baked enamel.

MODEL	Color	Max. Cable Dia. (Dim. A)
1508	Orange	5.33 (.210)
2708	Black	8.13 (.320)
4408	Blue	11.43 (.450)



LIST 4.95

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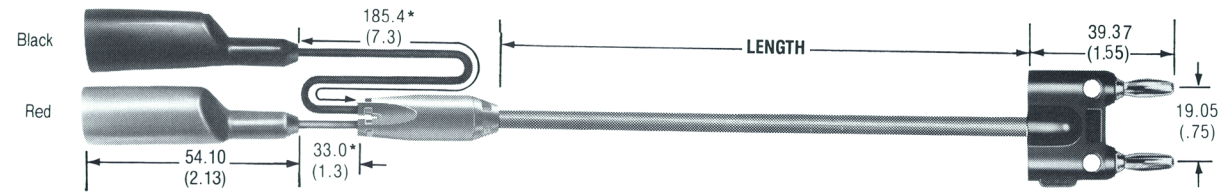
ALLIGATOR CLIPS TO DOUBLE BANANA PLUG



Two Cond. Twisted Pair	LIST	Shielded Mic. Cable	RG58C/U	Length	LIST
2BA-AL-18	16.85	2BB-AL-18	2BC-AL-18	457.2 (18.0)	13.85
2BA-AL-24	17.15	2BB-AL-24	2BC-AL-24	609.6 (24.0)	14.15
2BA-AL-30	17.45	2BB-AL-30	2BC-AL-30	762.0 (30.0)	14.45
2BA-AL-36	17.75	2BB-AL-36	2BC-AL-36	914.4 (36.0)	14.75
2BA-AL-48	18.35	2BB-AL-48	2BC-AL-48	1219.2 (48.0)	15.35
2BA-AL-60	18.95	2BB-AL-60	2BC-AL-60	1524.0 (60.0)	15.95

1ST END: Alligator Clips. Steel, nickel plated. Vinyl boots. *Breakout lengths on 2BA-AL are 96.52 (3.8) long.

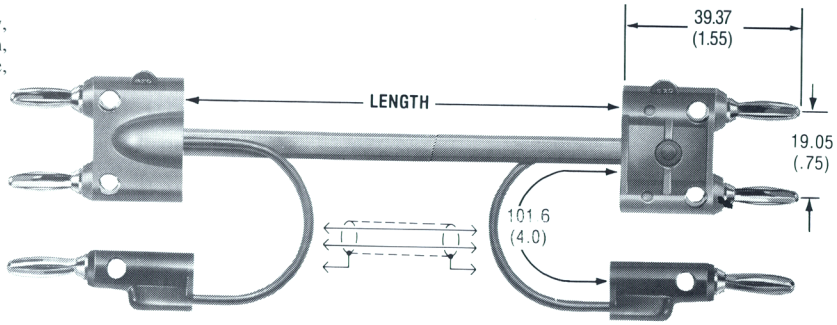
CABLE: Two Cond. Twisted Pair: 6.35 (.250) O.D. rated at 300 VRMS; **Shielded Mic.:** 4.95 (.195) O.D. rated at 1900 VRMS; **RG58C/U:** 4.95 (.195) O.D. rated at 1400 VRMS. Y-mold insulation, PVC.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene.
RATING: +50°C. (+122°F.) Max.

TWO COND. SHIELDED BALANCED LINE

1ST END: Double Banana Plug and Single Banana Plug. Brass body, beryllium copper spring, nickel plated. Double banana plug insulation, polyethylene, gray. Single banana plug insulation, polypropylene, green.
CABLE: Two conductor shielded microphone, 5.87 (.231) O.D.
2ND END: Same as first end.
RATING: 1000 VRMS, +55°C. (+131°F.) Max.

MODEL	Length	LIST
1167-18	457.2 (18.0)	24.30
1167-24	609.6 (24.0)	24.60
1167-30	762.0 (30.0)	24.90
1167-36	914.4 (36.0)	25.20
1167-48	1219.2 (48.0)	25.80
1167-60	1524.0 (60.0)	26.40



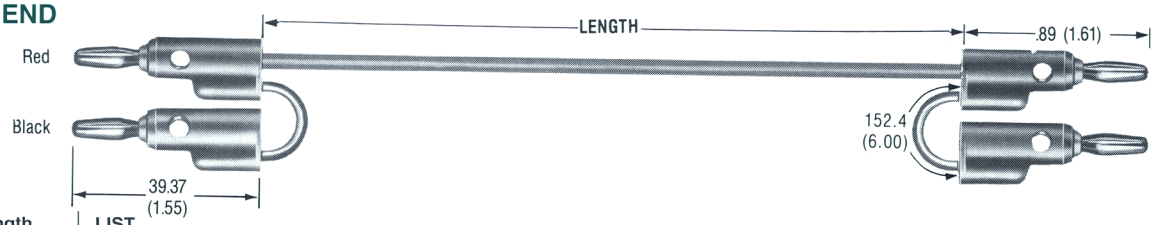
MINIGATOR CLIPS TO MINIATURE DOUBLE BANANA PLUG

MODEL	Length	LIST
3027-K-24	609.6 (24.0)	16.00

1ST END: Minigator Clips. Steel, nickel plated. Vinyl boots. One black and one red.
CABLE: RG 174/U, 2.54 (.100) O.D. Y-mold insulation, PVC, black.

2ND END: Miniature Double Banana Plug. Brass body, beryllium copper spring, gold plated. Insulation, polyethylene, black.
RATING: 1100 VRMS, +50°C. (+122°F.) Max.

SINGLE STACKING BANANA PLUGS, EACH END

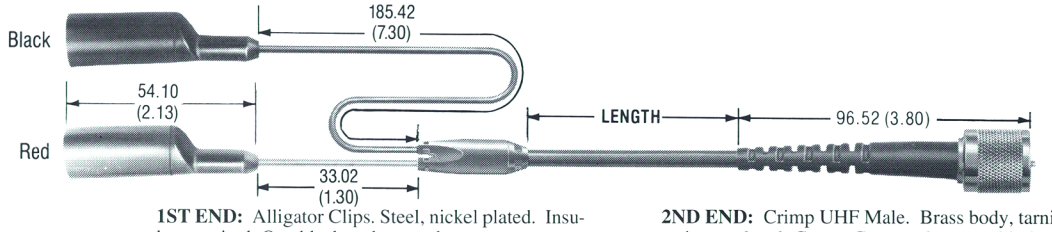


MODEL	Length	LIST
2239-C-24	609.6 (24.0)	21.00
2239-C-36	914.4 (36.0)	21.60
2239-C-48	1219.2 (48.0)	22.20
2239-C-60	1524.0 (60.0)	22.80

1ST END: Stacking Banana Plugs. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene, red. Ground plug insulation, polypropylene, black.

CABLE: RG 58C/U, 4.95 (.195) O.D.
2ND END: Same as first end.
RATING: 1400 VRMS, +55°C. (+131°F.) Max.

ALLIGATOR CLIPS TO UHF MALE



MODEL	Length	LIST
AL-C-UHF-36	914.4 (36.0)	18.65
AL-C-UHF-60	1524.0 (60.0)	19.85

1ST END: Alligator Clips. Steel, nickel plated. Insulators; vinyl. One black and one red.
CABLE: RG 58C/U, 4.95 (.195) O.D. Y-mold insulation, PVC, black.

2ND END: Crimp UHF Male. Brass body, tarnish resistant plated. Center Contact, brass, gold plated. Impedance: Nonconstant. Boot: PVC, black.
RATING: Operating Voltage: 500 VRMS, +50°C. (+122°F.) Max.

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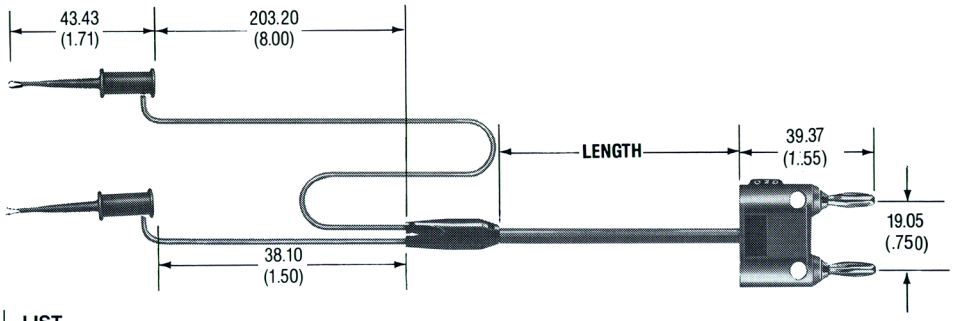
SMD GRABBER® TEST CLIPS TO DOUBLE BANANA PLUG

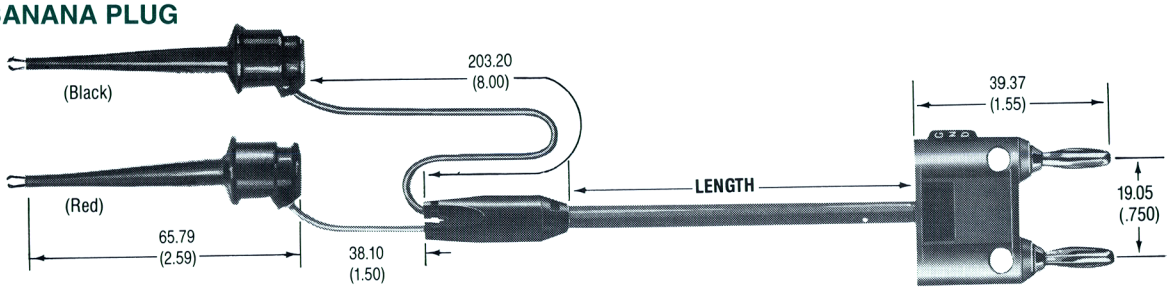


MODEL	Length	LIST
5411-C-24	609.6 (24.0)	16.85
5411-C-36	914.4 (36.0)	17.45
5411-C-48	1219.2 (48.0)	18.05
5411-C-60	1524.0 (60.0)	18.65

1ST END: SMD Grabber® Test Clips. Selectively goldplated beryllium copper contact. Nylon insulation. One black and one red.
CABLE: RG 58C/U, 4.9 (.195) O.D. Y-mold insulation, PVC,black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 1000 WVDC, +55°C. (+131°F.) Max.

MINIPINCER® TEST CLIPS TO DOUBLE BANANA PLUG

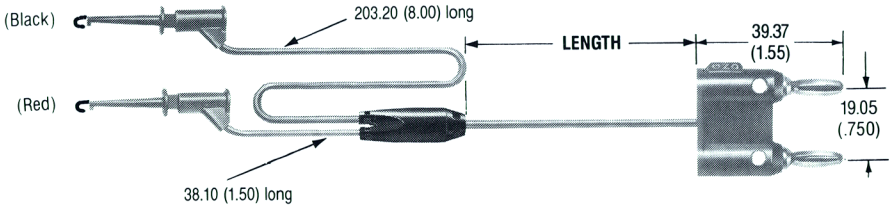


MODEL	Length	LIST
5422-C-18	457.2 (18.0)	13.05
5422-C-24	609.6 (24.0)	13.35
5422-C-36	914.4 (36.0)	13.95
5422-C-48	1219.2 (48.0)	14.55
5422-C-60	1524.0 (60.0)	15.15

1ST END: SMD Grabber® Test Clips. Selectively gol dplated beryllium copper contact. Nylon insulation. One black and one red.
CABLE: RG 58C/U, 4.9 (.195) O.D. Y-mold insulation, PVC,black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 1000 WVDC, +50°C. (+122°F.) Max.

MICROGRABBER® TEST CLIPS TO DOUBLE BANANA PLUG

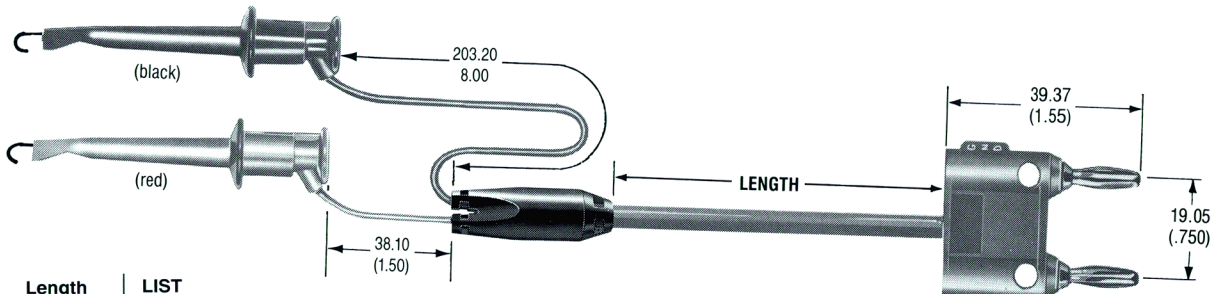


MODEL	Length	LIST
4768-K-24	609.6 (24.0)	15.05
4768-K-36	914.4 (36.0)	15.05
4768-K-48	1219.2 (48.0)	15.65
4768-K-60	1524.0 (60.0)	16.25

1ST END: Micrograbber® Test Clips. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black and one red.
CABLE: RG 174/U, 2.5 (.100) O.D. Y-mold insulation, PVC, black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 1000 WVDC, +50°C. (+122°F.) Max.

MINIGRABBER® TEST CLIPS TO DOUBLE BANANA PLUG



MODEL	Length	LIST
3786-C-18	457.2 (18.0)	12.15
3786-C-24	609.6 (24.0)	12.15
3786-C-36	914.4 (36.0)	12.15
3786-C-48	1219.2 (48.0)	12.75
3786-C-60	1524.0 (60.0)	13.35

1ST END: Minigrabber® Test Clips. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black andone red.
CABLE: RG RG58C/U, 4.9 (.195) O.D. Y-mold insulation, PVC,black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, black.
RATING: 1400 VRMS, +50°C. (+122°F.) Max.

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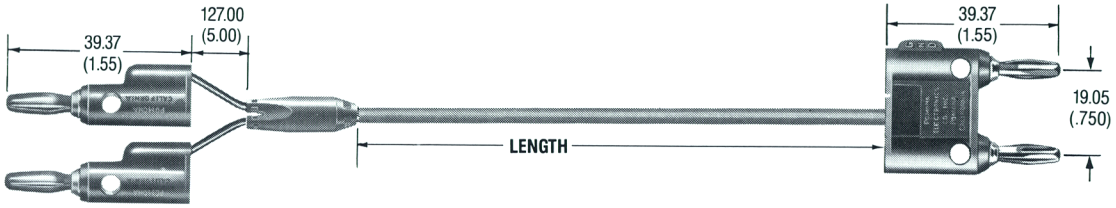
STACKING BANANA PLUGS TO DOUBLE BANANA PLUG



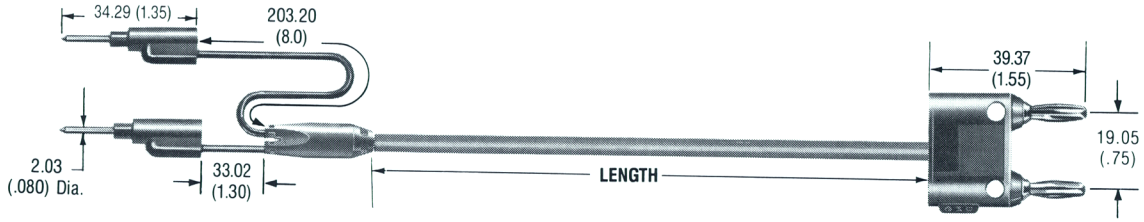
MODEL	Length	LIST
1368-A-18	457.2 (18.0)	18.35
1368-A-24	609.6 (24.0)	18.65
1368-A-30	762.0 (30.0)	18.95
1368-A-36	914.4 (36.0)	19.25
1368-A-48	1219.2 (48.0)	19.85
1368-A-60	1524.0 (60.0)	20.45

1ST END: Stacking Banana Plugs. Brass body, beryllium copper spring, nickel plated. Insulation, polypropylene. One black and one red.

CABLE: Two Cond., twisted pair, 6.35 (.250) O.D. Y-mold insulation, PVC, gray.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, gray.
RATING: 300 VRMS, +50°C. (+122°F.) Max.

STACKING PIN TIP PLUGS TO DOUBLE BANANA PLUG



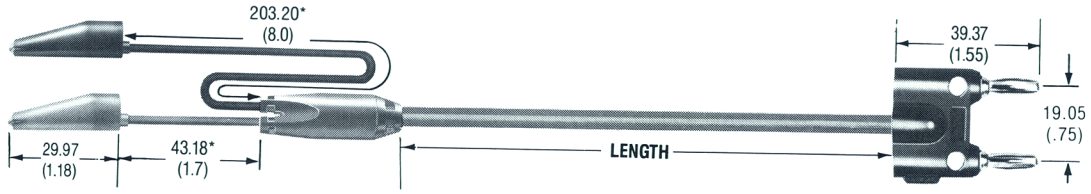
MODEL	Length	LIST
2BC-PP-18	457.2 (18.0)	15.90
2BC-PP-24	609.6 (24.0)	16.20
2BC-PP-36	914.4 (36.0)	16.80
2BC-PP-48	1219.2 (48.0)	17.40
2BC-PP-60	1524.0 (60.0)	18.00

1ST END: Stacking Pin Tip Plugs. Brass, nickel plated. Insulation, polypropylene. One black and one red.

CABLE: RG 58C/U, 4.95 (.195) O.D. Y-mold insulation, PVC, black.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene, gray.
RATING: 1400 VRMS, +50°C. (+122°F.) Max.

MINIGATOR CLIPS TO DOUBLE BANANA PLUG

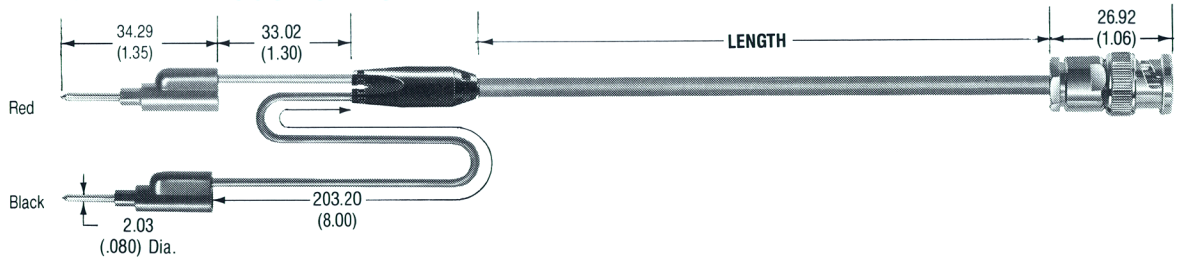


Two Cond. Twisted Pair	LIST	Shielded Mic. Cable	RG58C/U	LIST	Length
2BA-MG-18	18.85		2BC-MG-18	16.90	457.2 (18.0)
2BA-MG-24	19.05		2BC-MG-24	17.20	609.6 (24.0)
2BA-MG-30	19.35		2BC-MG-30	17.50	762.0 (30.0)
2BA-MG-36	19.65	2BB-MG-36	2BC-MG-36	17.80	914.4 (36.0)
2BA-MG-48	20.25		2BC-MG-48	18.40	1219.2 (48.0)
2BA-MG-60	20.85		2BC-MG-60	19.00	1524.0 (60.0)

1ST END: Minigator Clips. Steel, nickel plated. Vinyl boots, one black and one red. *Breakout lengths on 2BA-MG are 109.2 (4.3) long.
CABLE: Two Cond. Twisted Pair: 6.35 (.250) O.D., 300 VRMS; **Shielded Mic:** 4.95 (.195) O.D., 1900 VRMS; **RG 58C/U:** 4.95 (.195) O.D. 1400 VRMS; Y-mold insulation, PVC.

2ND END: Double Banana Plug. Brass body, beryllium copper spring, nickel plated. Insulation, polyethylene.
RATING: +50°C. (+122°F.) Max.

STACKING PIN TIP PLUGS TO BNC MALE



MODEL	Length	LIST
2882-C-18	457.2 (18.0)	14.35
2882-C-24	609.6 (24.0)	14.65
2882-C-36	914.4 (36.0)	15.25
2882-C-48	1219.2 (48.0)	15.85
2882-C-60	1524.0 (60.0)	16.45

1ST END: Stacking Pin Tip Plugs. Brass body, beryllium copper spring, gold plated. Insulation, polypropylene.

CABLE: RG 58C/U, 4.95 (.195) O.D. Y-mold insulation, PVC, black.

2ND END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

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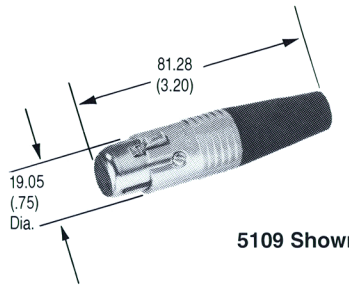
STRAIGHT CORD PLUG - FEMALE

This cord plug accepts all male receptacles with the same pin count as well as the male cord plug. Standard mating configuration will accommodate competitive units.

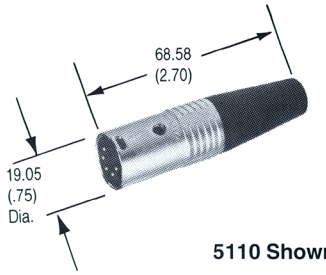


5109 Shown

MODEL	Sockets	XLR Type	LIST
5109	3	3-11	3.25
5118	4	4-11	4.30
5125	5	5-11	4.80

STRAIGHT CORD PLUG - MALE

This cord plug accepts all female receptacles with the same pin count as well as the female cord plug. Standard mating configuration will accommodate competitive units.

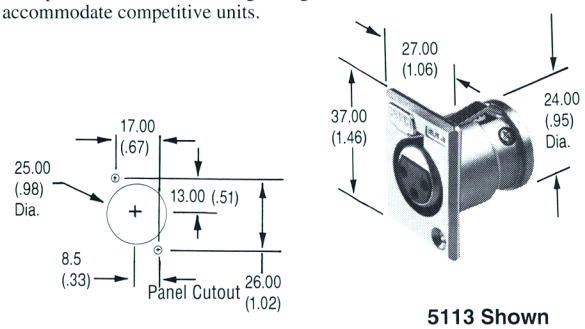


5110 Shown

MODEL	Sockets	XLR Type	LIST
5110	3	3-12	2.65
5119	4	4-12	2.75
5126	5	5-12	3.25

WALL/FLOOR MOUNT RECEPTACLE - FEMALE

This cord plug accepts male cord plugs with the same pin count. Standard mating configuration will accommodate competitive units.

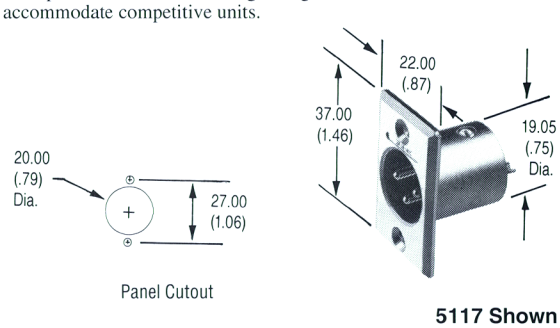


5113 Shown

MODEL	Sockets	XLR Type	LIST
5113	3	3-31	4.05
5123	4	4-31	4.45
5129	5	5-31	4.65

WALL/FLOOR MOUNT RECEPTACLE - MALE

This receptacle accepts female receptacles with the same pin count. Standard mating configuration will accommodate competitive units.

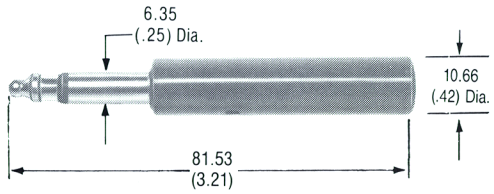


5117 Shown

MODEL	Sockets	XLR Type	LIST
5117	3	3-32	1.95
5131	4	4-32	2.45
5130	5	5-32	2.85

PHONE PLUG PJ-051 (WE-310)

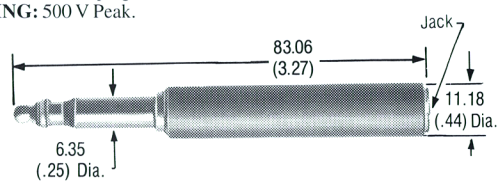
MATERIAL: Phone plug, PJ-051 (equivalent to WE-310), brass.
INSULATION: Phenolic.
RATING: 500 V Peak.
***HANDLE COLOR:**
--0 Black, -2 Red.



MODEL	
4797-*	LIST 11.80

MINIATURE PHONE JACK TO PJ-051 (WE-310) PLUG

This adapter allows the use of miniature phone plug patch cords to be used in equipment fitted with PJ-051 jacks.
UPPER: 4.39 (.173) Miniature phone jack.
INSULATION: Nylon.
LOWER: PJ-051 plug.
RATING: 500 V Peak.



MODEL	
4993	LIST 30.55

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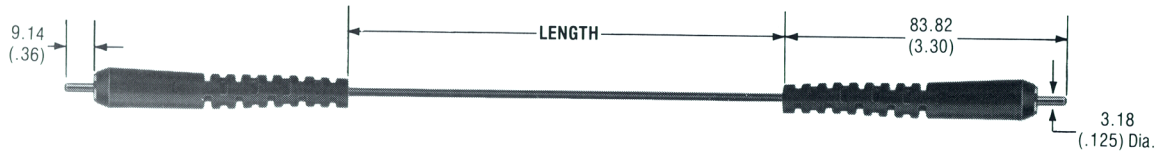
PHONO PLUG, EACH END



MODEL	Length	LIST
5092-K-18	457.2 (18.0)	14.05
5092-K-24	609.6 (24.0)	14.35
5092-K-36	914.4 (36.0)	14.95
5092-K-48	1219.2 (48.0)	15.55

1ST END: Phono Plug. Brass, nickel plated. Boot, PVC, black.

CABLE: RG174/U, 2.54 (.100) O.D.

2ND END: Same as first end.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

PHONO PLUG TO BNC MALE

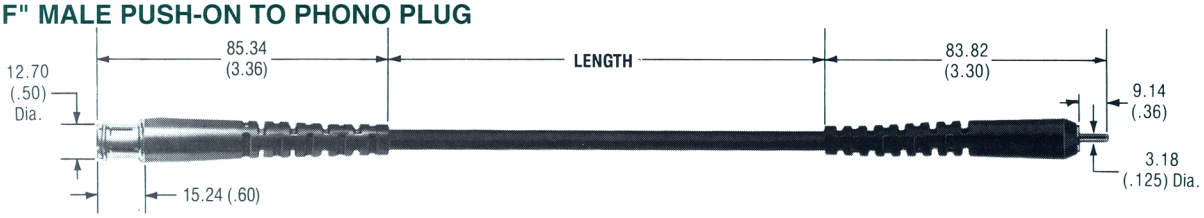
MODEL	Length	LIST
4963-E-24	609.6 (24.0)	11.75
4963-E-36	914.4 (36.0)	12.35
4963-E-48	1219.2 (48.0)	12.95
4963-E-60	1524.0 (60.0)	13.55

1ST END: Phono Plug. Brass, nickel plated. Boot, PVC, black.

CABLE: RG59B/U, 6.15 (.242) O.D., 75 Ohms.

2ND END: BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

TYPE "F" MALE PUSH-ON TO PHONO PLUG



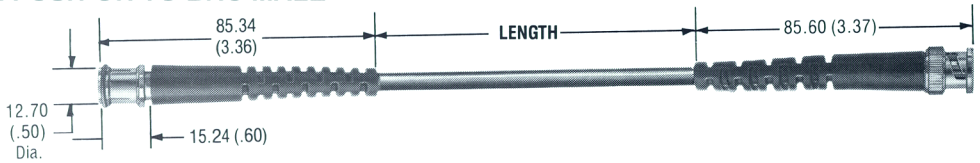
MODEL	Length	LIST
5025-E-72	1829.8 (72.0)	16.50

1ST END: Push-on Type "F" Male. Brass, nickel plated. Boot, PVC, black.

CABLE: RG59B/U, 6.15 (.242) O.D., 75 Ohms.

2ND END: Phono Plug. Brass, nickel plated. Boot, PVC, black.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

TYPE "F" MALE PUSH-ON TO BNC MALE



MODEL	Length	LIST
4939-PP-24	609.6 (24.0)	14.00
4939-PP-36	914.4 (36.0)	14.75
4939-PP-48	1219.2 (48.0)	15.50
4939-PP-60	1524.0 (60.0)	16.25

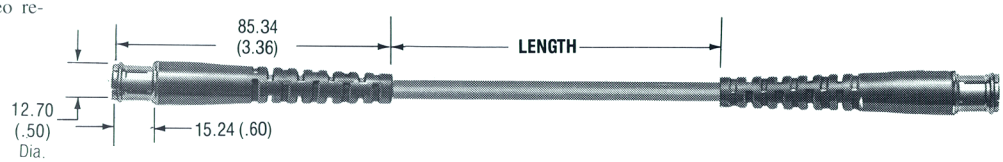
1ST END: Push-on Type "F" Male. Brass, nickel plated. Boot, PVC, black.

CABLE: RG59 type CATV cable 6.15 (.242) O.D.

2ND END: Crimp BNC Male. Brass body, tarnish resistant plated. Center contact, brass, gold plated. Impedance, 50 Ohms. Boot, PVC, black.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

TYPE "F" MALE PUSH-ON, EACH END

This "F" type fits standard female "F" connectors. Positive connection is made by pushing the male onto the female connector. Excellent for television inputs, video recorders, cable TV systems, etc.



MODEL	Length	LIST
4920-PP-48	1219.2 (48.0)	11.45

1ST END: Push-on Type "F" Male. Brass, nickel plated. Boot, PVC, black.

CABLE: RG59 type CATV cable 6.15 (.242) O.D.

2ND END: Same as first end.
RATING: 500 VRMS, +50°C. (+122°F.) Max.

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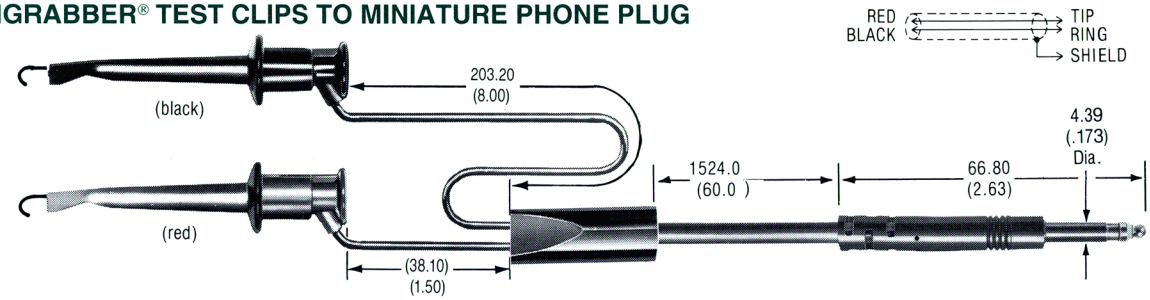
MINIGRABBER® TEST CLIPS TO MINIATURE PHONE PLUG



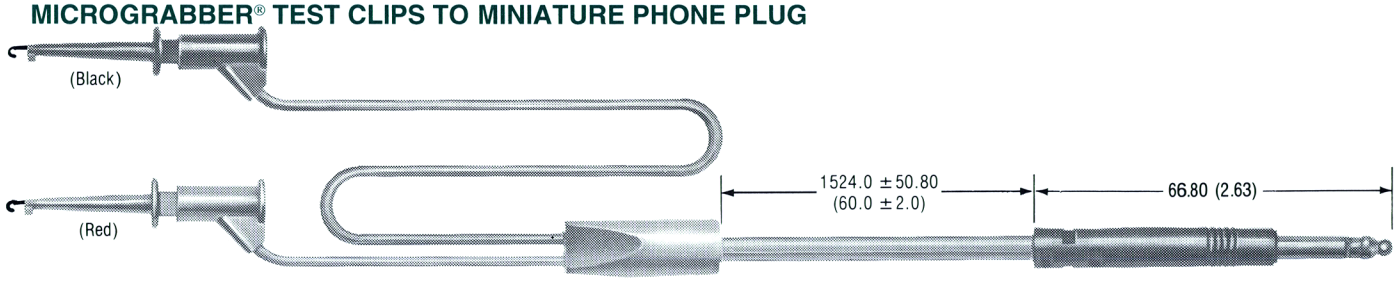
MODEL
5019-60

1ST END: Minigrabber® Test Clips. Contact, beryllium copper, gold plated. Insulation; glass filled nylon. One black and one red.
CABLE: Two cond. shielded , 22 AWG, 7 x 30 t.c., 4.57 (.180) O.D.Y-mold insulation: PVC, gray.

2ND END: Miniature Phone Plug, three conductor. Brass. Insulation; PVC, black.
WIRING: Tip to red, ring to black, sleeve, no connection.
RATING: 500 V Peak, +50°C. (+122°F.) Max.

LIST 26.20

MICROGRABBER® TEST CLIPS TO MINIATURE PHONE PLUG



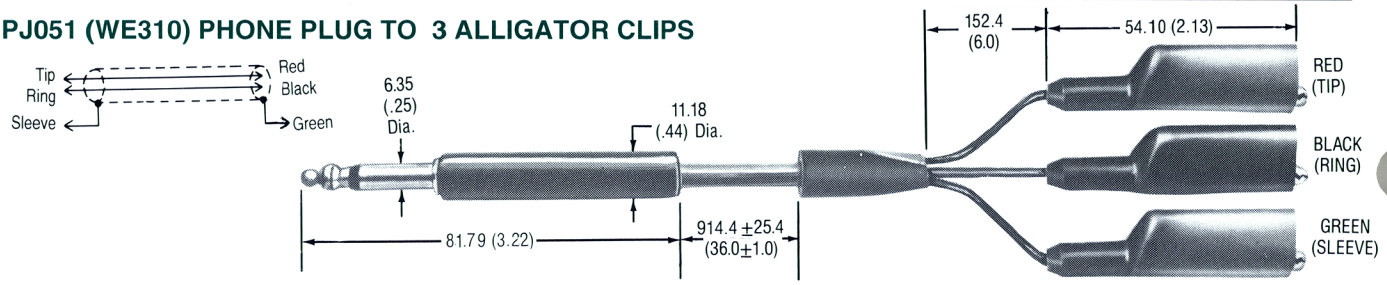
MODEL
4778-60

1ST END: Micrograbber® Test Clips. Contact, beryllium copper, gold plated. Insulation; glass filled nylon. One black and one red.
CABLE: Two cond. shielded , 22 AWG, 7 x 30 t.c., 4.57 (.180) O.D.Y-mold insulation: PVC, gray.

2ND END: Miniature Phone Plug, three conductor. Brass. Insulation; PVC, black.
WIRING: Tip to red, ring to black, sleeve, no connection.
RATING: 500 V Peak, +50°C. (+122°F.) Max.

LIST 32.75

PJ051 (WE310) PHONE PLUG TO 3 ALLIGATOR CLIPS



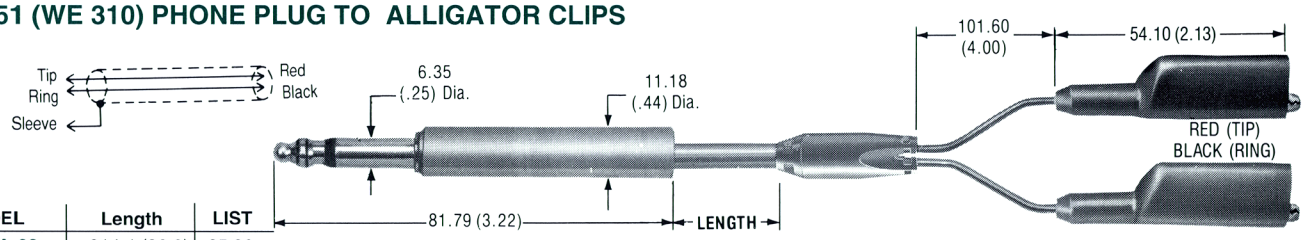
MODEL
5151-J-36

1ST END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
CABLE: Two cond. shielded microphone. Polyethylene insulation. Vinyl jacket, 5.87 (.231) O.D. Nom. cap. between cond.: 18pF/ft. Nom. Cap. between one cond and remaining cond. connected to shield: 32 pF/ft. Color: gray. Y-mold insulation: PVC, gray.

2ND END: Alligator Clips. Steel, nickel plated. Vinyl boots; one red, one black, and one green.
RATING: 500 V Peak, +50°C. (+122°F.) Max.

LIST 32.00

PJ -051 (WE 310) PHONE PLUG TO ALLIGATOR CLIPS

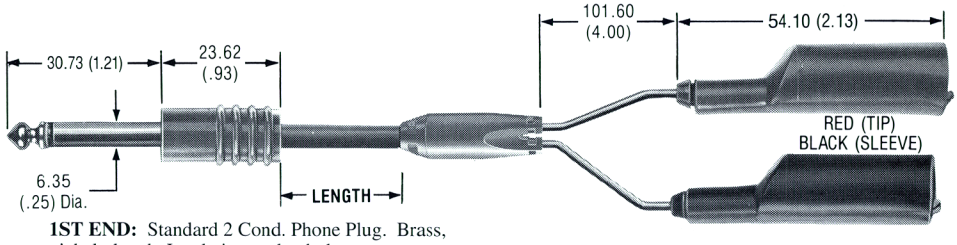


MODEL	Length	LIST
3352-A-36	914.4 (36.0)	25.90
3352-A-60	1524.0 (60.0)	27.70
3352-A-84	2133.6 (84.0)	29.50
3352-A-120	3048.0(120.0)	31.30

1ST END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
CABLE: Two cond. twisted pair, 65 x 36 t.c., 6.35 (.250) O.D. Y-mold insulation, PVC, gray.

2ND END: Alligator Clips. Steel, nickel plated. Vinyl boots, one black and one red.
RATING: 300 V RMS, +50°C. (+122°F.) Max.

STANDARD PHONE PLUG TO ALLIGATOR CLIPS



MODEL	Length	LIST
4990-B-36	914.4 (36.0)	16.80
4990-B-60	1524.0 (60.0)	18.00
4990-B-84	2133.6 (84.0)	21.20
4990-B-120	3048.0 (120.0)	23.00

1ST END: Standard 2 Cond. Phone Plug. Brass, nickel plated. Insulation, polyethylene, gray.
CABLE: Shielded microphone coaxial, 4.95 (.195) O.D. Y-mold insulation, PVC, gray.

2ND END: Alligator Clips. Steel, nickel plated. Vinyl boots, one black and one red.
RATING: 500 V Peak, +50°C. (+122°F.) Max.

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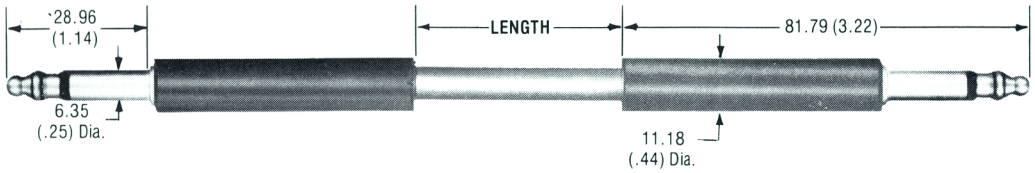
PJ -051 (WE 310) PHONE PLUG, EACH END



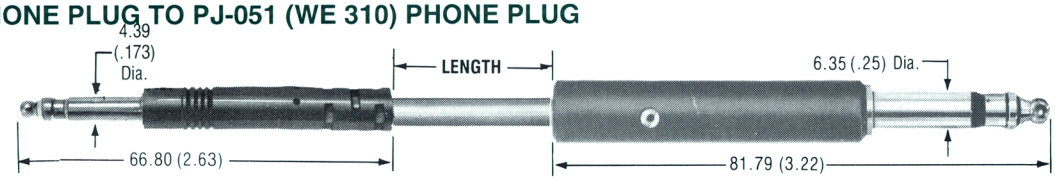
MODEL	Length	LIST
2524-A-18	457.2 (18.0)	28.95
2524-A-24	609.6 (24.0)	29.25
2524-A-36	914.4 (36.0)	29.85
2524-A-48	1219.2 (48.0)	30.45
2524-A-60	1524.0 (60.0)	31.05

WIRED TIP AND RING ONLY
1ST END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
CABLE: Two cond. twisted pair, 6.35 (.250) O.D.
2ND END: Same as first end.
RATING: 500 V Peak.

MODEL	Length	LIST
2524-J-18	457.2 (18.0)	36.30
2524-J-24	609.6 (24.0)	36.60
2524-J-36	914.4 (36.0)	37.20
2524-J-48	1219.2 (48.0)	37.80
2524-J-60	1524.0 (60.0)	38.40

WIRED TIP, RING AND SLEEVE
1ST END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
CABLE: Two cond.shielded microphone, 5.87 (.231) O.D.
2ND END: Same as first end.
RATING: 500 V Peak.

MINIATURE PHONE PLUG TO PJ-051 (WE 310) PHONE PLUG



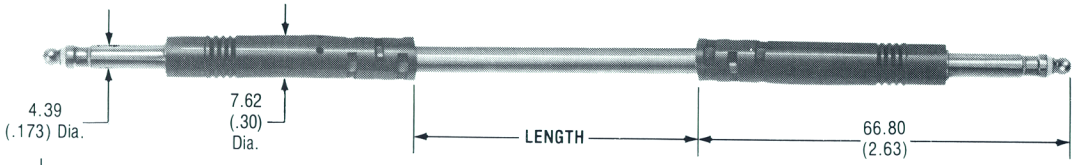
MODEL	Length	LIST
4280-36	914.4 (36.0)	49.95
4280-48	1219.2 (48.0)	50.55
4280-60	1524.0 (60.0)	51.15

WIRED TIP, RING AND SLEEVE
1ST END: Miniature 3 Cond. Phone Plug. Insulation, PVC, black. Sleeve, no connection.

CABLE: Two cond. shielded 22 AWG (7 x 30) t.c., 4.57 (.180) O.D. Y-mold insulation, PVC, gray.

2ND END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
RATING: 300 V RMS, +50°C. (+122°F.) Max.

MINIATURE PHONE PLUG, EACH END



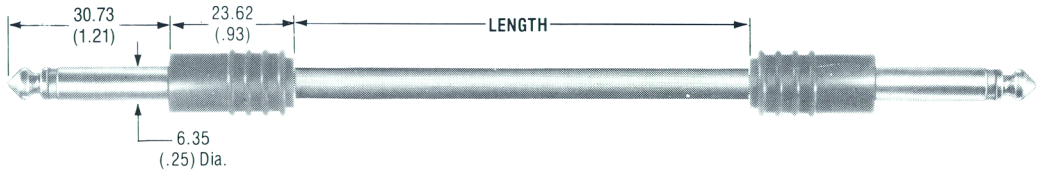
MODEL	Length	LIST
4279-12	304.8 (12.0)	21.45
4279-24	609.6 (24.0)	22.05
4279-36	914.4 (36.0)	22.65
4279-48	1219.2 (48.0)	23.25
4279-60	1524.0 (60.0)	23.85

WIRED TIP, RING AND SLEEVE
1ST END: Miniature 3 Cond. Phone Plug. Insulation, PVC, black.

CABLE: Two cond. shielded 22 AWG (7 x 30) t.c., 4.57 (.180) O.D. Y-mold insulation, PVC, gray.

2ND END: Same as first end.
RATING: 300 V RMS, +50°C. (+122°F.) Max.

STANDARD PHONE PLUG, EACH END



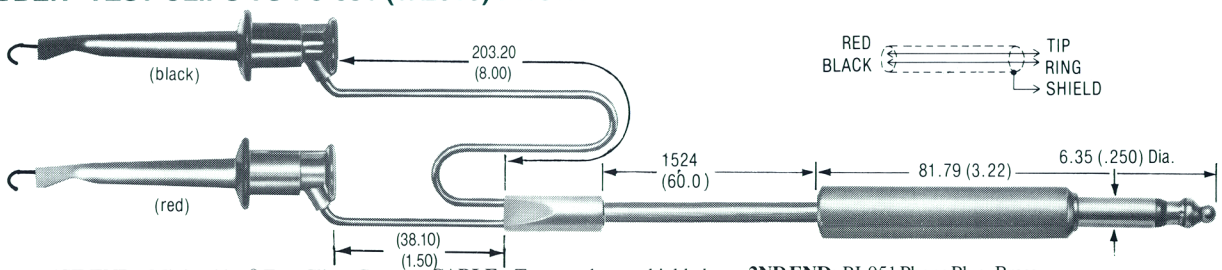
MODEL	Length	LIST
4053-B-36	914.4 (36.0)	17.25
4053-B-60	1524.0 (60.0)	18.45

1ST END: Standard 2 Cond. Phone Plug. Brass, nickel plated. Insulation, polyethylene, gray.

CABLE: Shielded microphone, coaxial. Gray vinyl jacket, 4.95 (.195) O.D.

2ND END: Same as first end.
RATING: 500 V. Peak, +55°C. (+131°F.) Max.

MINIGRABBER® TEST CLIPS TO PJ-051 (WE310) PHONE



MODEL
4812-J-60

1ST END: Minigrabber® Test Clips. Contact, beryllium copper, gold plated. Insulation, glass filled nylon. One black and one red.

CABLE: Two conductor shielded microphone, 22 AWG, 5.87 (.231) O.D. Y-Mold insulation, PVC, gray.

2ND END: PJ-051 Phone Plug. Brass. Insulation; phenolic, red.
RATING: 500 V. Peak, +50°C. (+122°F.) Max.

LIST 32.30

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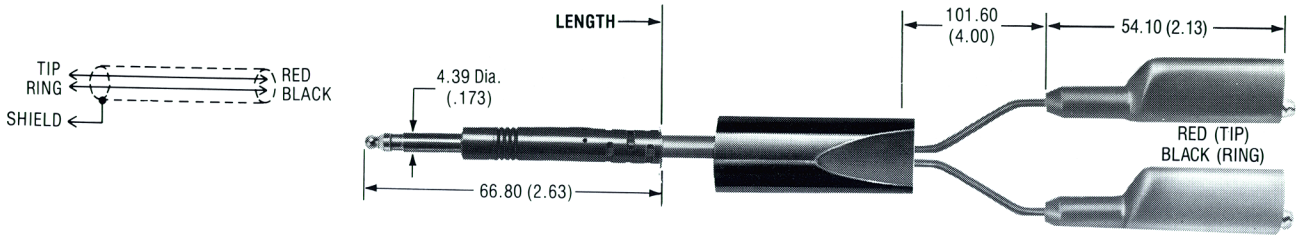
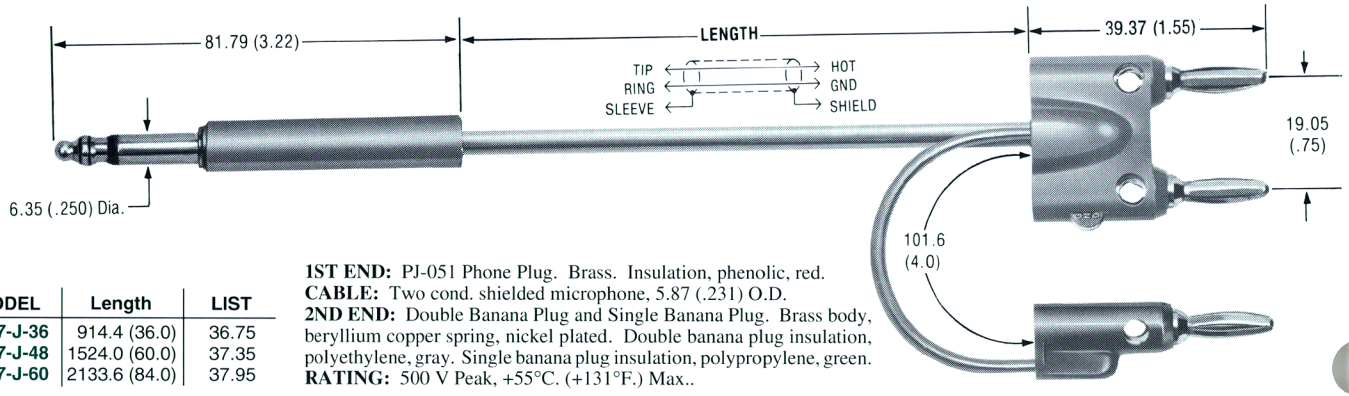
MINIATURE PHONE PLUG TO ALLIGATOR CLIPS



MODEL	Length	LIST
5026-36	914.4 (36.0)	25.40
5026-60	1524.0 (60.0)	26.60
5026-84	2133.6 (84.0)	29.00

1ST END: Miniature 3 Cond. Phone Plug. Insulation, PVC, black. Sleeve, no connection.
CABLE: Two cond. shielded, 22 AWG, 7 x 30 t.c., 4.57 (.180) O.D.Y-mold insulation, PVC, gray.
2ND END: Alligator clips. Steel, nickel plated. Vinyl boots, one black and one red.
RATING: 500 V Peak, +50°C. (+122°F.) Max..

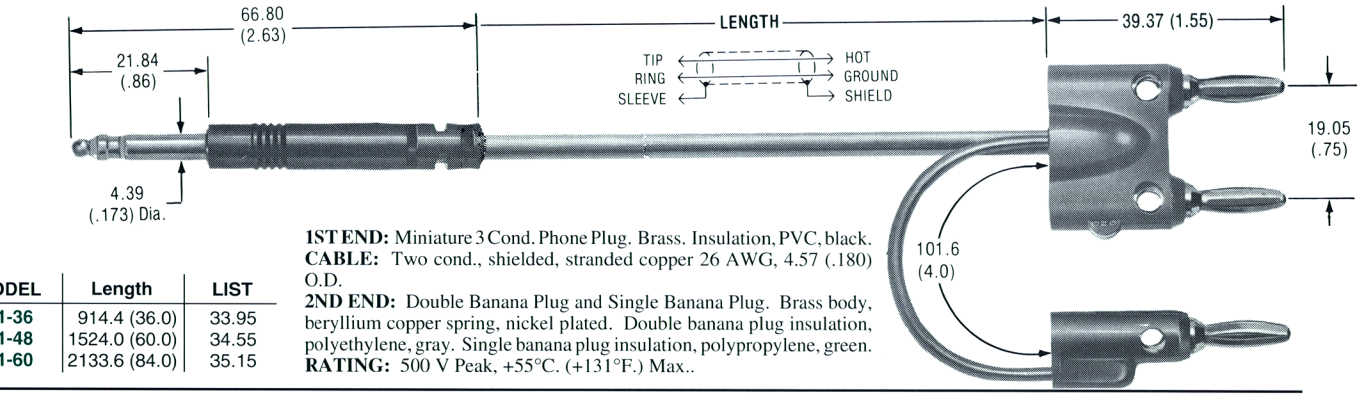
PJ -051 (WE 310) PHONE PLUG TO DOUBLE PLUG BALANCED LINE



MODEL	Length	LIST
2977-J-36	914.4 (36.0)	36.75
2977-J-48	1524.0 (60.0)	37.35
2977-J-60	2133.6 (84.0)	37.95

1ST END: PJ-051 Phone Plug. Brass. Insulation, phenolic, red.
CABLE: Two cond. shielded microphone, 5.87 (.231) O.D.
2ND END: Double Banana Plug and Single Banana Plug. Brass body, beryllium copper spring, nickel plated. Double banana plug insulation, polyethylene, gray. Single banana plug insulation, polypropylene, green.
RATING: 500 V Peak, +55°C. (+131°F.) Max..

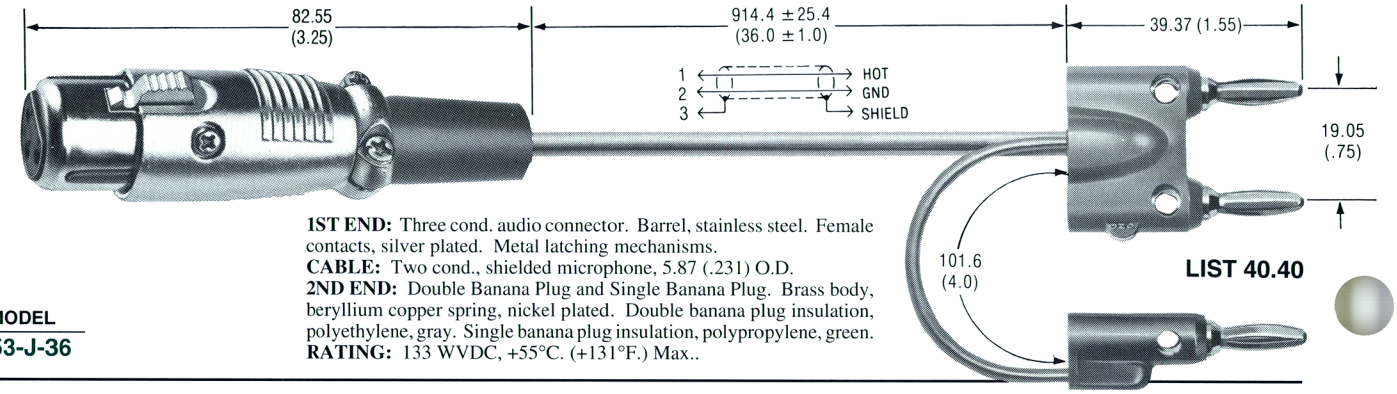
MINIATURE PHONE PLUG TO DOUBLE PLUG BALANCED LINE



MODEL	Length	LIST
4281-36	914.4 (36.0)	33.95
4281-48	1524.0 (60.0)	34.55
4281-60	2133.6 (84.0)	35.15

1ST END: Miniature 3 Cond. Phone Plug. Brass. Insulation, PVC, black.
CABLE: Two cond., shielded, stranded copper 26 AWG, 4.57 (.180) O.D.
2ND END: Double Banana Plug and Single Banana Plug. Brass body, beryllium copper spring, nickel plated. Double banana plug insulation, polyethylene, gray. Single banana plug insulation, polypropylene, green.
RATING: 500 V Peak, +55°C. (+131°F.) Max..

AUDIO CONNECTOR TO THREE BANANA PLUGS



MODEL
4953-J-36

1ST END: Three cond. audio connector. Barrel, stainless steel. Female contacts, silver plated. Metal latching mechanisms.
CABLE: Two cond., shielded microphone, 5.87 (.231) O.D.
2ND END: Double Banana Plug and Single Banana Plug. Brass body, beryllium copper spring, nickel plated. Double banana plug insulation, polyethylene, gray. Single banana plug insulation, polypropylene, green.
RATING: 133 WVDC, +55°C. (+131°F.) Max..

LIST 40.40

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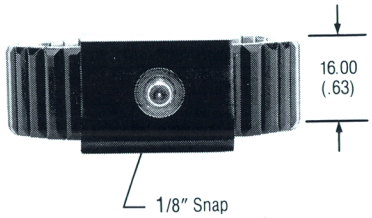
This group of static control products features interchangeable components and provides a complete grounding system.

Other products which will expand the versatility of this system include:
Alligator Clip, Model 2240
Pin Tip Adapter, Model 1432
Mingrabber® Test Clip, Model 4723

STATIC CONTROL WRIST BAND

These metal expansion bands are Speidel watch bands with a patented design to prevent pinching. Fully insulated on all outer surfaces to protect wearer against electrical hazards.
MATERIAL: Stainless steel.
INSULATION: Black polyester film.

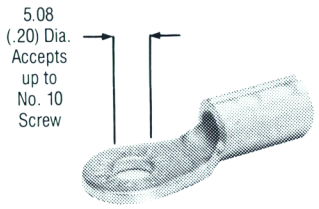


MODEL	Sizes	Circumference Min.	Max.
5528	Large	7.25	13.0
5529	Medium	6.50	12.0
5530	Small	5.50	10.0

LIST 16.95

RING TERMINAL

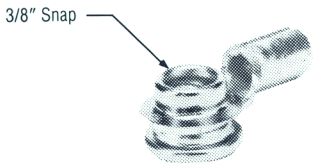
Attach this terminal to anything to create a banana jack for grounding wrist strap.
MATERIAL: High conductivity copper.
FINISH: Tin plated.



MODEL **5531** — **LIST 1.20**

STACKING SNAP BANANA JACK

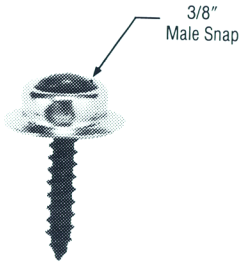
Attach this jack to either 3/8" snap stud (male) or 3/8" snap socket (female). It also allows multiple attachment to the same grounding point.
MATERIAL: High conductivity copper.
FINISH: Tin plated.



MODEL **5532** — **LIST 2.25**

SCREW DOWN SNAP STUD

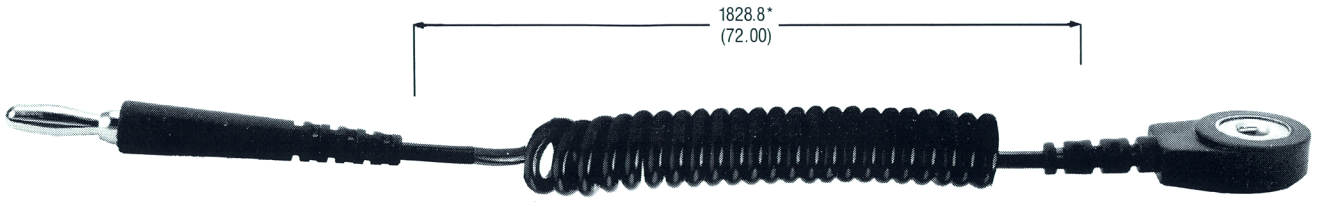
This snap screw provides a secure grounding point when installed in a metal frame. Drill a 1/16" hole and use self threading screw for a quick installation.
MATERIAL: Steel.
FINISH: Black oxide.



MODEL **5533** — **LIST 7.50 PKG.** 10 per Pkg.

STATIC CONTROL GROUND CORD

This patch cord features a molded-in 1 MegOhm, 1/4 Watt, Carbon film resistor.



MODEL **5534**

1ST END: Banana Plug. Nickel plated brass body, beryllium copper spring. PVC insulation.

WIRE: Coiled tinsel cord, 2 bundles, 7 strands, silver vinyl jacket, 2.54 (.100) O.D. Color: Black.
2ND END: 1/8" Snap. Nickel plated brass. Kraton insulation. **LIST 12.95**

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Fax: (205) 721-0868

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Fax: (816) 741-0813

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Fax: (509) 928-2903

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Irvine, CA 92714
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2 Clifton Street
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Fax: (603) 595-6567

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Fax: (215) 663-5362

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Phone: (216) 831-8232
Fax: (216) 831-6747

4940 Profit Way
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Fax: (513) 274-7786

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Phone: (713) 261-5031
Fax: (713) 261-0990

(Austin)
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(El Paso)
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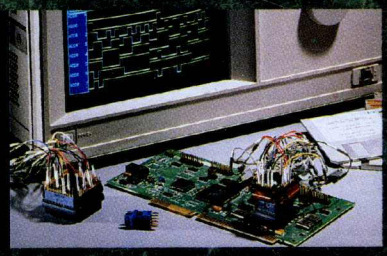
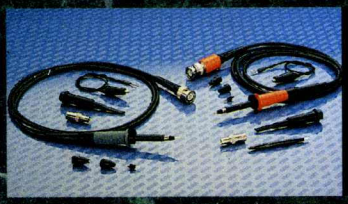
See pages 12-25.





11 versatile Oscilloscope Probe Kits offer finest selection of 100, 200 and 300MHz combinations, providing higher impedance, faster rise times and replaceable parts for longer service life.
See pages 40-51.

18 new DMM (digital multimeter) test accessory kits introduce new, safety-designed test clips and interchangeable elements for maximum testing flexibility.
See pages 26-39.

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